

IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF TEXAS
CORPUS CHRISTI DIVISION

MARC VEASEY, *et al.*,

Plaintiffs,

v.

RICK PERRY, *et al.*,

Defendants.

Civil Actions No. 2:13-cv-193 (NGR)
(Consolidated Case)

**UNITED STATES' NOTICE OF FILING OF THE
SUPPLEMENTAL EXPERT REPORT OF DR. GERALD WEBSTER**

At the Court's direction, the United States hereby files the supplemental expert report of Dr. Gerald Webster, which is attached hereto.

Date: August 15, 2014

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United States Attorney
Southern District of Texas

Respectfully submitted,

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DECLARATION OF DR. GERALD R. WEBSTER

Pursuant to 28 U.S.C. § 1746, I, Gerald R. Webster, make the following declaration:

INTRODUCTION

This report replaces my June 30, 2014 report. Portions of the earlier report were based on an erroneous data set pertaining to registered voters without appropriate identification to vote under SB 14. That data set was corrected and resupplied to me. Reflecting the corrected data, there are changes to paragraphs 66-72 and 74. Also corrections were made to Tables 4A, 4B, 4C, 6A, 6B, 8A, 8B, 8C, 9 and 10, as well as Figures 25-29. Finally, while updating my report I found that I had erroneously indicated that there are 139 census tracts in Texas with more than 25% of their households having no access to a motor vehicle. The correct number is 138. Corrections pertaining to this error were made in paragraphs 23 and 67.

1. I am a Professor of geography at the University of Wyoming, Laramie, Wyoming, where I also serve as departmental chair. Prior to assuming my current position at Wyoming in fall 2007, I was a faculty member in the Department of Geography at the University of Alabama for eighteen years, serving as departmental chair the last seven. My formal education includes a BA (1975) in political science from the University of Colorado-Denver, a MS (1980) in

geography from Western Washington University, and a Ph.D. (1984) in geography from the University of Kentucky.

2. My primary research and teaching emphases are in political geography. I have published over 80 articles in refereed journals, book chapters, and edited volumes. In 2011, I was given the Lifetime Achievement Award by the Southeastern Division of the Association of American Geographers, and in 2012 I was selected to provide the Political Geography Plenary Lecture at the Association of American Geographers meeting. I have provided written reports, oral testimony, or both in litigation in ten states. My CV accompanies this report (Appendix 4).

3. I have been asked by lawyers at the United States Department of Justice to determine whether implementation of Texas's photographic voter identification law (SB 14) will have differential effects on racial and language minority groups, with emphasis on the contrasts between Non-Hispanic whites (Anglos), Hispanics, and Non-Hispanic African Americans. I have been specifically asked to assess obstacles associated with obtaining an Election Identification Certificate (EIC) due to the residential patterns of different racial and ethnic groups, access to a motor vehicle, and poverty.

4. To complete this report data were examined from the 2000 and 2010 United States Censuses and the 2006-2010 and 2008-2012 American Community Survey (ACS) Five-Year Estimates. In addition, data were examined regarding the locations of Texas Department of Public Safety (DPS) offices at which potential voters can secure EICs and other forms of identification sufficient to cast a valid in-person ballot under SB 14, the location of local government offices at which potential voters can apply for EICs, and the locations of temporary mobile offices at which potential voters can apply for EICs. This report relies more heavily on the 2006-2010 ACS Five-Year Estimates because that release includes data on household access

to motor vehicles by race and language minority group that were not included in the 2008-2012 ACS Five-Year Estimates. I also examined mass transit ridership statistics for Houston, San Antonio, and Dallas. Finally, I examined the distribution of registered voters who lack appropriate identification from the “no match list” developed by Professor Stephen Ansolabehere.

5. The decennial census is intended as a complete enumeration of the U.S. population. Beginning with the 2010 Census, the number of questions asked of respondents was limited to approximately ten. The ACS is intended to collect much of the data historically provided by the census long form through annual surveys of the U.S. population. See U.S. Census Bureau, 2008, *A Compass for Understanding and Using American Community Survey Data*. It is important to note that the ACS does not replace the decennial census and in fact uses decennial census population counts as a baseline on which to calculate its rolling annual estimates of characteristics of the population.

6. Many of the calculations and all of the maps included in this report were made by the University of Alabama Cartographic Research Laboratory under my direction. I have employed the Laboratory for expert witness work since the mid-1990s and for academic research efforts since the late 1980s.

7. This report includes multiple sections. Immediately following is an “Executive Summary” stating the report’s primary general findings. The following section provides an overview of the demographic diversity and population growth rates in Texas. The third section briefly outlines the types of photographic identification that may be used in order to cast a valid in-person ballot under SB 14. The fourth section lays out the methods used to determine if it will be more difficult for African Americans and Hispanics to obtain an EIC as compared to

Anglos. The fifth section examines evidence for these differential effects in the State's three largest cities: Houston, San Antonio, and Dallas. The final section considers data from the no match list pertaining to registered voters with inadequate identification.

EXECUTIVE SUMMARY

8. The time required to travel to and from a DPS office can pose a significant obstacle for voters to obtain an EIC, with the burden falling most heavily on potential voters who lack access to a motor vehicle. The cities of Houston, San Antonio, and Dallas contain more than half of the census tracts in Texas in which more than 25% of households do not have access to a motor vehicle. In Houston, San Antonio, and Dallas, these tracts are overwhelmingly populated by African Americans and Hispanics and exhibit high rates of poverty. The use of the public bus system increases trip travel time several fold over the use of a motor vehicle. While temporary offices reduce travel times, their highly limited deployment minimizes if not negates any ameliorative effect. The analysis of the no match list indicates that many registered voters do not have the identification needed to cast a regular ballot in person at the polls. Should these voters cast provisional ballots they would face additional travel burdens while trying to have their ballots accepted.

DEMOGRAPHIC OVERVIEW OF TEXAS

9. The population of the state of Texas was 25.1 million in 2010, nearly 4.3 million or 20.6% greater than it had been in 2000. With respect to Texas's three largest demographic groups, the Anglo population grew by only 4.2%, whereas the African American population grew by 22.1% and the Hispanic population grew by 41.8%. The 2.8 million additional

Hispanic Texans accounted for 65% of the State's total population growth between 2000 and 2010. General population statistics are provided in Appendix 1 in this report. The shorter tables in the text are excerpted from the more comprehensive tables located in this Appendix.

10. In 2000, 52.4% of Texas residents were Anglos. The proportion fell to 45.3% in 2010, making Texas one of four majority-minority states in the United States. During the same period Hispanics grew from 32.0% to 37.6%, and African Americans grew from 11.3% to 11.5% of the State's total population.

11. Texas has nearly 15.3 million residents who are both U.S. citizens and 18 years of age or older, the citizen voting-age population (CVAP). Anglos constitute 57.6% of this group, followed by Hispanics at 25.5% and African Americans at 12.7%.

12. Anglos, Hispanics, and African Americans have different patterns of geographic distribution in Texas. The counties with the highest proportions of Anglos are located in East and North Texas, those with the largest proportions of African Americans are located in the eastern third of the State, and those with the highest proportions of Hispanics are found along the State's southern boundary. It is further important to note that population densities vary widely across Texas, with the greatest population concentrations in the eastern third of the State, including the cities of Austin, Dallas, Fort Worth, Houston, and San Antonio.

13. According to the 2006-2010 ACS, nearly 14% of all U.S. citizens residing in Texas had incomes below the poverty level during that period. Rates of poverty differed significantly between racial groups. While only 8.5% of the Anglo U.S. citizens in Texas had incomes below the poverty level, over 18% of Hispanic citizens and nearly 23% of African American citizens had incomes below the poverty level. Geographically, the counties with the

highest rates of poverty are in the far western portion of Texas and along the southern border with Mexico.

14. According to the 2006-2010 ACS, 6% of Texas household units had no access to a motor vehicle with access varying between racial groups. Thus, while 7.5% of Hispanic household units and 13.4% of African American household units did not have access to a motor vehicle, less than 4% of Anglo household units had no access to a motor vehicle.

Figure 1: State of Texas, Anglo Population

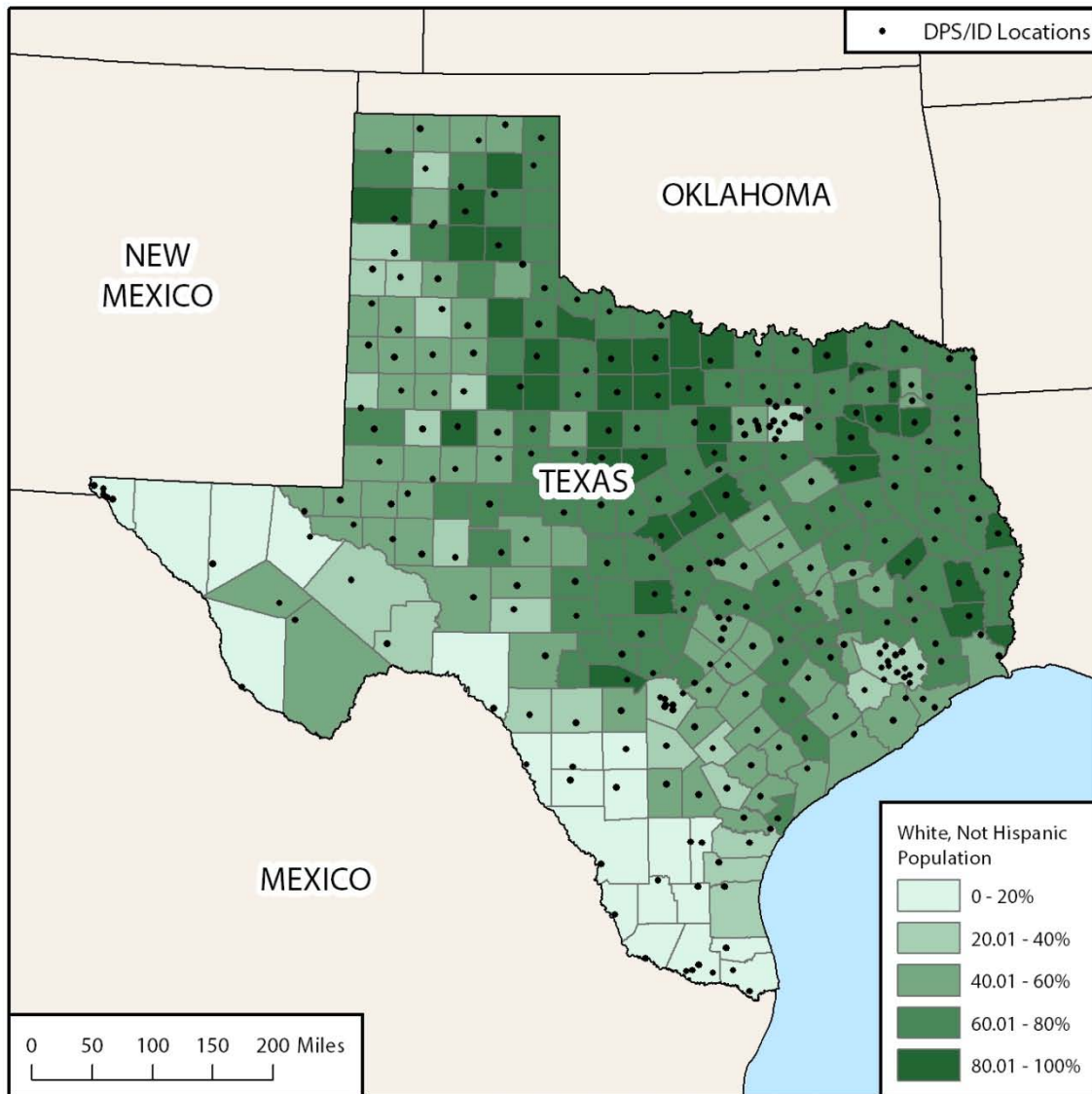


Figure 2: State of Texas, Black Non-Hispanic Population

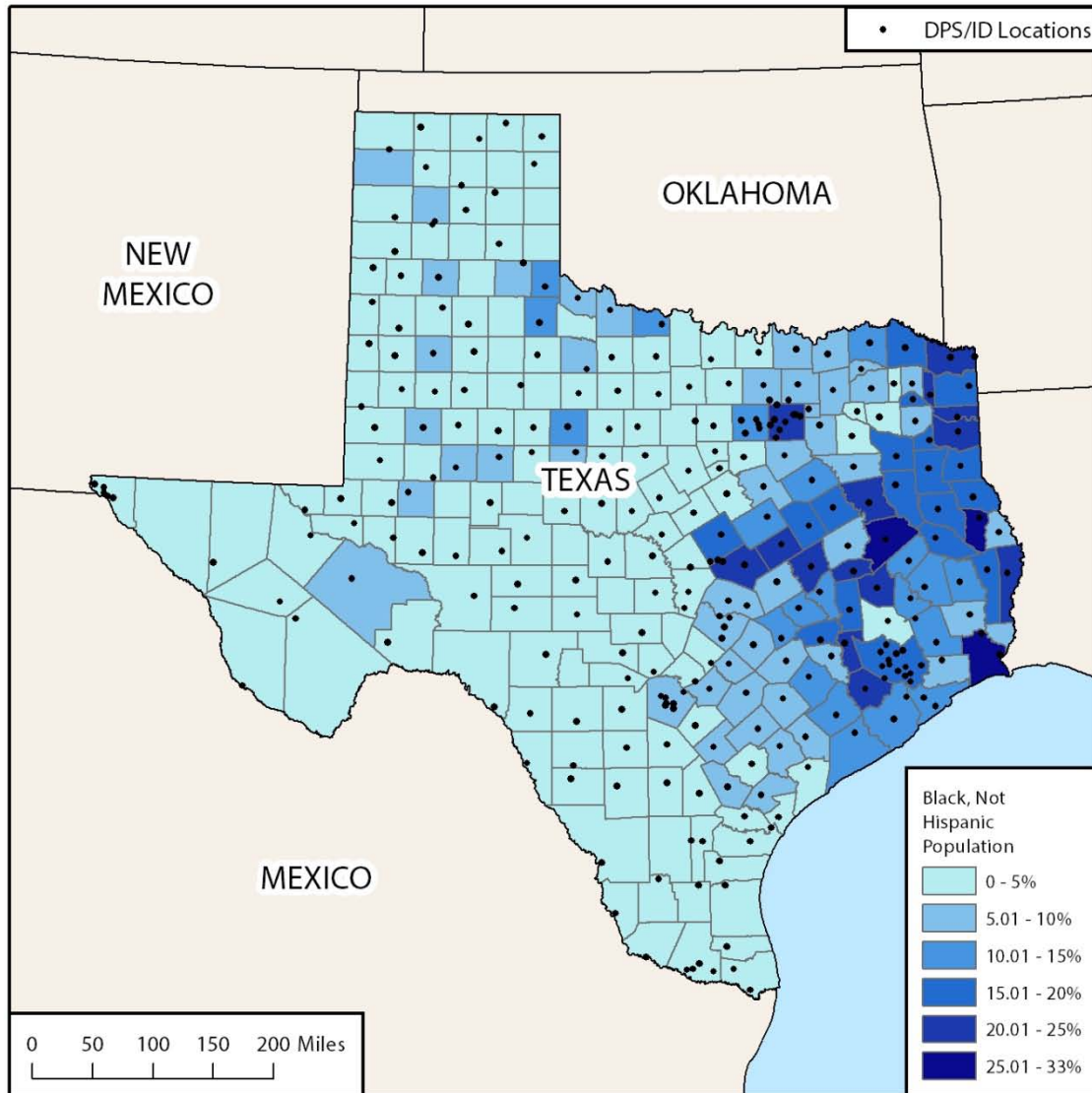


Figure 3: State of Texas, Hispanic Population

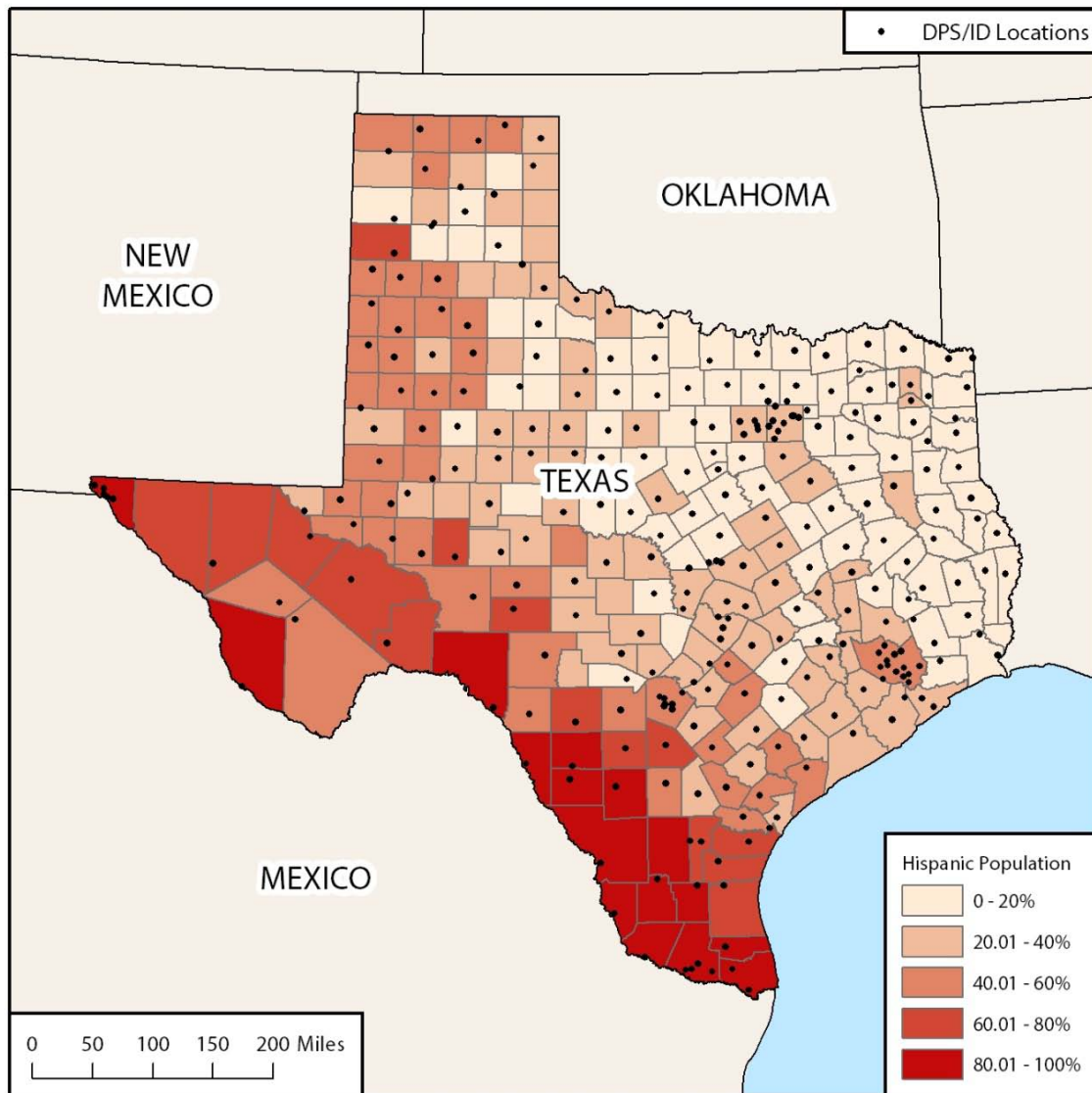


Figure 4: State of Texas, Poverty Rate

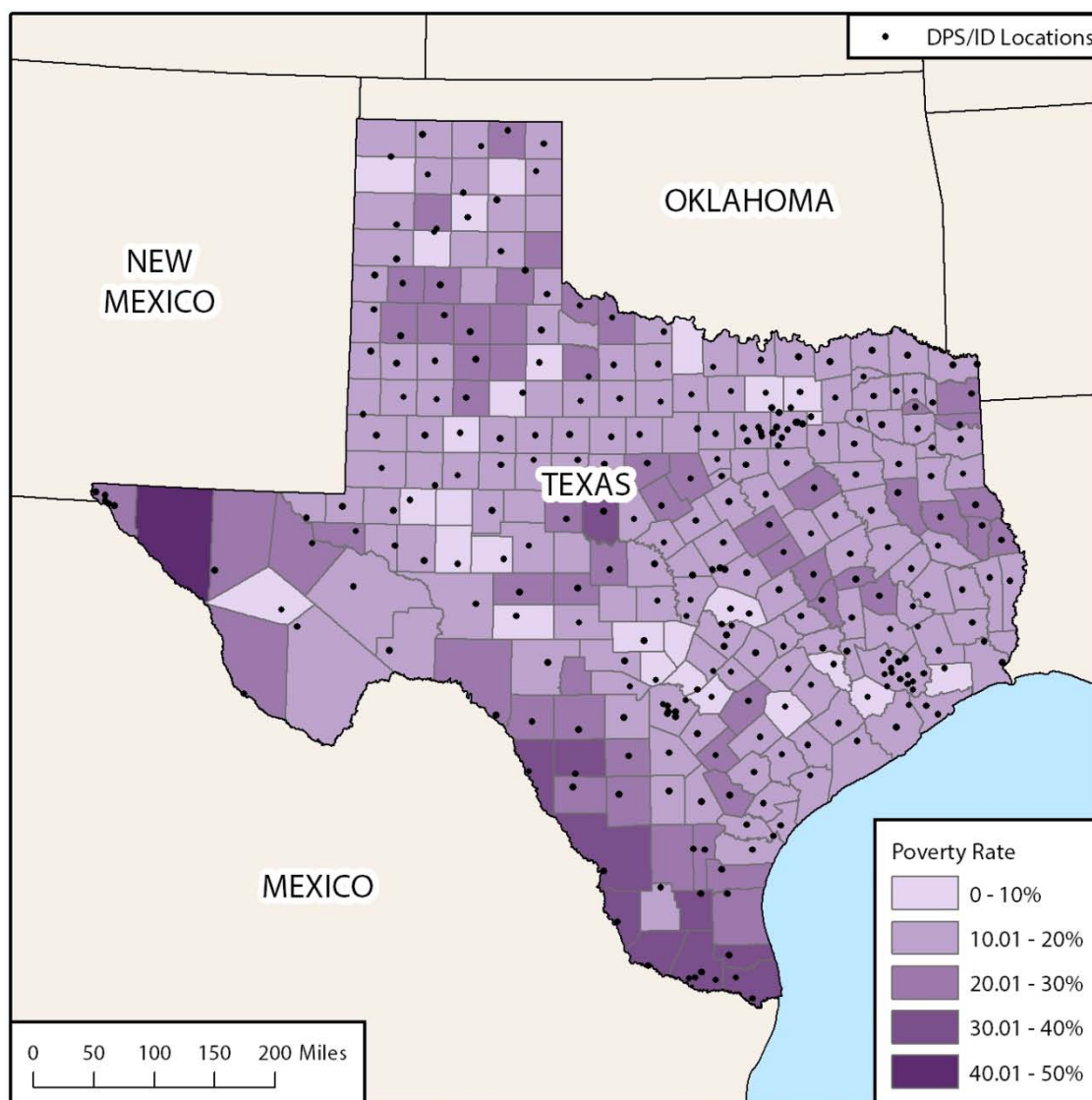


Figure 5: State of Texas, Occupied Housing Units Without Vehicle Access

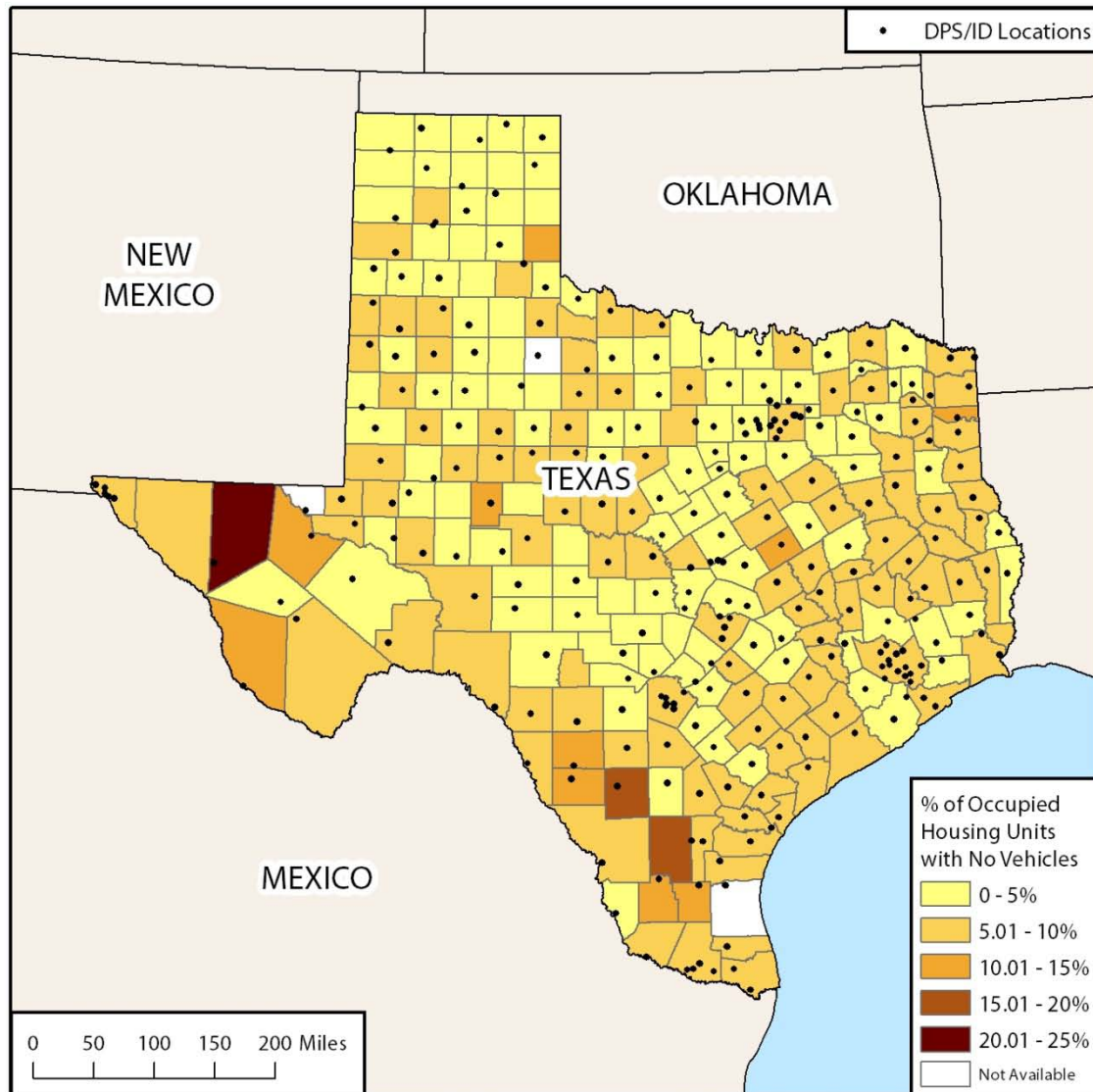


Table 1: Selected Statewide Poverty Statistics by Race

	Citizen Poverty Rate	Percent Household Units without Vehicle Access
Anglo	8.6%	3.7%
Hispanic	23.8%	7.5%
African American	23.5%	13.4%

Source: American Community Survey Five-Year Estimates 2006-2010, Tables, B17025 & B25044

SB 14: TEXAS'S PHOTOGRAPHIC VOTER IDENTIFICATION LAW

15. The implementation of SB 14 requires voters coming to the polls to provide one of seven different forms of identification:

- 1) Texas driver license
- 2) Texas election identification certificate
- 3) Texas personal identification card
- 4) Texas concealed handgun license
- 5) United States military identification card containing the person's photograph
- 6) United States citizenship certificate containing the person's photograph
- 7) United States passport

See Texas Secretary of State's Office, *Texas Voting*, <http://www.sos.state.tx.us/elections/pamphlets/largepamp.shtml> (last accessed June 8, 2014). The Texas Department of Public Safety issues Texas driver licenses, EICs, personal identification cards, and concealed handgun licenses.

16. There are 225 DPS Office locations around the state of Texas. Of this number, eight are located in Dallas County including two located in the city of Dallas; twelve are located in Harris County including seven located within the city limits of Houston; and five are located in Bexar County including three within the city limits of San Antonio. Depending on location, these offices can be open on different days of the week and for different time periods on those days.

17. Texas has 254 counties, and approximately 80 of these counties have no Department of Public Safety Office that issues photographic identification. Thus, citizens in these counties wishing to secure the identification from a DPS Office needed to cast a valid in-person ballot under SB 14 would be required to travel to another county to do so.

18. Possibly as a result, as of mid-June 2014, the State has enlisted 61 local government offices around the state to accept applications for Election Identification Certificates (EICs). I have reviewed declarations from officials in 44 of these 61 offices in

order to assess the effectiveness of this arrangement. Copies of these declarations are attached to my report as Appendix 3.

19. EIC applications had been accepted in only 11 of these 44 local government offices from June 2013 until the date of the declarations in April, May or June 2014. These 11 local government offices accepted a total of 40 EIC applications. Notably, eight of these offices accepted three or fewer EIC applications, and none accepted more than nine applications. This result is highly suggestive of implementation problems.

20. The State has also developed mobile units that serve as temporary locations at which potential voters may apply for an EIC. Since January 1, 2014, the State deployed two mobile units in Houston for two different two-day periods, one mobile unit in San Antonio for one two-day period, and one mobile unit visited Dallas for one day.

METHODS

21. Participation in elections carries costs for voters, with greater costs generally leading to greater rates of non-participation. As stated by Anthony Downs in his classic 1957 book *An Economic Theory of Democracy*, “time is the principal cost of voting: time to register, to discover what parties are running, to deliberate, to go to the polls, and to mark the ballot. Since time is a scarce resource, voting is inherently costly” (p. 265). Downs goes on to state that the monetary costs associated with voting include the “cost of transportation” and that the “Ability to bear these costs varies inversely with income, so upper income citizens have an advantage. . . . If the time must be taken out of working hours, this cost can be quite high, in which case high-income groups again have an advantage” (p. 266). Thus, participation in the

political systems carries costs, and these higher costs can lead to higher rates of non-participation, particularly among lower-income citizens.

22. Also pertinent and parallel to Downs' work are well established principles in geography pertaining to the effects of overcoming distance in terms of time and money. Of note is Edward Ullman's classic 1954 article entitled *Geography as Spatial Interaction*. Spatial interaction is the movement of a person or good from an origin to a destination. In the case of a potential voter who possesses the identification required by SB 14, the origin is their residence and the destination is the polling place. In the case of a potential voter who needs to obtain an EIC, the origin is their residence and the destination is a DPS Office, a county office that has agreed to accept EIC applications, or a DPS mobile unit. Ullman concluded that spatial interaction will not occur if the time or monetary costs of overcoming distance are judged too great. With regard to voting, each potential voter determines whether he or she has at their disposal the time and monetary resources needed to meet the costs associated with participating in the political process. The concept of distance decay establishes a direct decrease in the interaction between two places as the distance between them increases. Thus, a voter living only a five-minute walk from a location accepting EIC applications is more likely to obtain an EIC than one needing hours to travel to and from a DPS location.

23. Access to a motor vehicle provides potential voters greater flexibility in their efforts to secure needed identification and to travel to a polling site than someone without access to a motor vehicle will have. In total there are 138 census tracts in Texas where more than 25% of the household units do not have access to a motor vehicle. Notably, 78 (56.5%) of these census tracts are located in the three largest cities in Texas: Houston, San Antonio, and Dallas. As noted earlier, 6.0% of all household units in the state of Texas do not have access to a motor

vehicle. Thus, the 25% or above cut off point for more focused analysis of the census tracts is over four times greater than the statewide proportion, and many potential voters in these tracts may be directly affected by the ID law. Therefore, this analysis focuses on these three cities.

24. With regard to each city, I first present citywide data on poverty, household unit access to a motor vehicle and race/ethnicity to allow for internal and external comparisons. I next discuss the travel distance and time to a DPS Office by motor vehicle from all census tracts within each city. I then focus on those census tracts in which more than a quarter of the household units have no access to a motor vehicle, comparing motor vehicle and public bus travel times to the nearest DPS Office. I then present a comparison of the time needed to travel by motor vehicle or public bus to one of the mobile DPS Offices deployed between January 1 and May 15, 2014, from the centroids (or geographic center) of the tracts with more than a quarter of their households having no access to a motor vehicle. Finally, the data from the no match list is considered as it relates to registered voters who do not have appropriate identification to cast an in-person ballot.

25. The distance to the nearest DPS Office was calculated for all U.S. citizens of voting age for all census tracts in the three cities. This calculation was completed with ArcGIS's Network Analyst extension at the census tract level using the distance from each tract's centroid as calculated by the Census Bureau to the nearest fixed DPS Office providing acceptable identification to vote. Because census tract boundaries do not necessarily follow the municipal boundary, all census tracts having centroids inside the municipal boundary were included in the calculations. The ArcGIS Network Analyst extension software searches for the nearest road or highway to the centroid of the tract and then calculates the distance in miles to the nearest DPS

Office. The Network Analyst extension was also used to calculate the motor vehicle travel time from the centroid of the tract to the nearest DPS Office.

26. The travel distance and time by motor vehicle to the nearest DPS Office is largely irrelevant to a potential voter residing in a household unit without access to a motor vehicle. However, each of the three cities examined has a well-developed bus system. Focusing on the tracts in each city in which more than a quarter of the household units have no access to a motor vehicle, bus system websites were used to calculate an estimated bus trip time from the bus stop nearest an individual's residence to the bus stop nearest the closest fixed DPS Office location. In later analysis mobile DPS unit locations were added to the assessment. To insure consistency, all bus trips were assumed to begin at 8:00 am on a weekday.

27. Finally, the tracts were subdivided into those that are plurality or majority Anglo, Hispanic or African American to identify those communities most potentially affected by the ID law.

DIFFERENTIAL EFFECTS IN SELECTED CITIES

28. This section of the report examines the likely differential effects of the Texas ID law between Anglos, Hispanics and African Americans focusing on household unit access to a motor vehicle and poverty in the state's three largest cities. I specifically focus on those census tracts in which at least 25% of household units do not have access to a motor vehicle, referred to below as "low vehicle access tracts."

29. This analysis finds that in the three largest cities in Texas members of the African American and Hispanic communities who seek to obtain an EIC are much more likely than members of the Anglo community to face substantial burdens. This finding is based primarily

upon the analysis of the 77 census tracts in Houston, San Antonio, and Dallas in which more than one-quarter of household units did not have access to a motor vehicle (a 78th tract in San Antonio was dropped from the analysis because it included Bexar Adult Detention Center). In addition to limited access to a motor vehicle, these census tracts are overwhelmingly populated by African American and Hispanic citizens of voting age as a proportion of all citizens of voting age. Of the 77 tracts in which more than a quarter of the household units did not have access to a motor vehicle, only two had majority or plurality Anglo citizen voting age populations. These 77 census tracts are also characterized by high rates of poverty.

30. Travel times to the nearest DPS Office were calculated from the centroids of the 77 low vehicle access tracts. Estimated one way motor vehicle travel times from the centroids of the 30 tracts in Houston to the nearest DPS Office averaged 10.5 minutes. The parallel estimate for the 21 tracts in San Antonio is 7.5 minutes, and for the 26 tracts in the Dallas the estimated mean one way travel time is 12.8 minutes. For potential voters in these tracts that must rely on bus travel to secure the proper identification the one way travel times are substantially longer at 66.7 minutes in Houston, 36.2 minutes in San Antonio, and 59.7 minutes in Dallas. Thus, one-way travel time in Houston for bus riders is 6.3 times longer than for one-way motor vehicle travel to the nearest DPS Office. Similarly, bus riders from these tracts in San Antonio will spend 4.8 times longer, and those in Dallas will spend 4.7 times longer in transit than those with access to a motor vehicle.

31. Mobile offices accepting EIC applications visited all three cities between January 1 and May 15, 2014. Two mobile units visited Houston for two days, one mobile unit visited San Antonio for two days, and one mobile unit visited Dallas for one day. The temporary geographic locations selected for these mobile units did reduce mean motor vehicle and mean

bus rider travel time from the low vehicle access tracts in the three cities. But the allocation of these mobile offices to the three cities was so limited as to call in to question the benefits of their use.

32. The location of the mobile units did reduce motor vehicle and bus travel time. For example, mean motor vehicle travel time in Houston fell from 10.5 minutes to 7.9 minutes, and public bus travel time fell from 66.7 minutes to 44.6 minutes. Similarly, motor vehicle and bus travel times fell in San Antonio and Dallas. But significant differentials continue to exist with bus riders spending 5.6 times more time than those with access to a motor vehicle in Houston to travel to a DPS Office. In San Antonio bus riders would spend 6.4 times more time in-transit than drivers and in Dallas the ratio is 4.3 times more time. These reductions notwithstanding, the mobile units were deployed for such a short time period that their value is questionable.

Table 2: Average Travel Time In Minutes to Obtain an EIC from
Low Vehicle Access Tracts in Texas's Three Largest Cities

Average Travel Time from Low Vehicle Access Tracts in Minutes	Car	Bus	Car (Including Temp. Locations)	Bus (Including Temp. Locations)
Houston	10.5	66.7	7.9	44.6
San Antonio	7.5	36.2	4.9	31.3
Dallas	12.8	59.7	7.8	33.5

Sources: Calculations were made using the ArcGIS Network Analyst extension and the municipal bus websites of the three cities.

Houston

33. The city of Houston is located in Harris County and is the largest city in Texas, with a 2010 population of 2.1 million of the State's 25.2 million residents and a 2006-2010 ACS estimated citizen voting-age population of 1.2 million individuals. The latter total includes 445,232 Anglos (38.9%), 349,419 African Americans (30.5%) and 281,506 Hispanics (24.6%).

34. The residential patterns of these three groups differ in Houston. Census tracts with large proportions of Anglos are found in a corridor on the western side that runs from near the center of the city to the western edge of Houston, while tracts with large proportions of Non-Hispanic African Americans are found in the northeastern and south-central portions of Houston. The tracts with the largest proportions of Hispanics are found in the far eastern and north central portions of the city.

35. Houston's poverty rate differs among the three demographic groups. While 19.4% of the U.S. citizens in Houston had incomes below the poverty level 2006-2010, the rate among Anglo citizens was 7.3%, the rate for Hispanic citizens was 24.9% and the rate among African American citizens was 27.6%. The geographic areas with the largest rates of poverty are located in the eastern third of Houston, generally including census tracts with larger proportions of African American or Hispanic populations.

36. Household access to a motor vehicle also differs in Houston by demographic group. While 10.1% of all Houston household units had no access to a motor vehicle in 2006-2010, the rate for Anglo housing units was under 5%. The rate was nearly 18% for African American housing units and 10% for Hispanic household units. Not surprisingly, given the geographic pattern of poverty in the city, the census tracts with the largest proportions of

household units without access to motor vehicles are located in the eastern portion of Houston including census tracts with high concentrations of African Americans and Hispanics.

Table 3: Citizen Voting Age Population (CVAP), Poverty and Vehicle Access in Houston by Race

	CVAP, Percent	Citizen Poverty, Percent	Household Units without Access to a Motor Vehicle, Percent
Anglo	38.9%	7.3%	4.9%
Hispanic	24.6%	24.9%	10.1%
African American	30.5%	27.6%	17.7%

Source: American Community Survey Five-Year Estimates 2006-2010, Tables, B05001, B17001, B17025 & B25044

37. The geographic distribution of DPS driver license offices or mobile units providing EICs is a key factor in determining whether groups are affected differently when trying to secure such identification. There are twelve DPS Offices in Harris County, with seven of these located in the City of Houston. Houston also had two mobile units visit on February 27th and 28th, 2014, which I will examine separately given their ephemeral character. The distance to the nearest DPS driver license office in Harris County for all U.S. citizens of voting age was calculated for all 458 census tracts in the city of Houston. The average distance to a DPS driver license office in Houston is 5.8 miles, and the estimated travel time by motor vehicle is 9.8 minutes. While the estimated travel time using a motor vehicle needed to visit the nearest DPS Office is small, it is unlikely that a potential voter without access to a motor vehicle would be able to easily walk to the nearest DPS Office.

Figure 6: City of Houston, Anglo Population

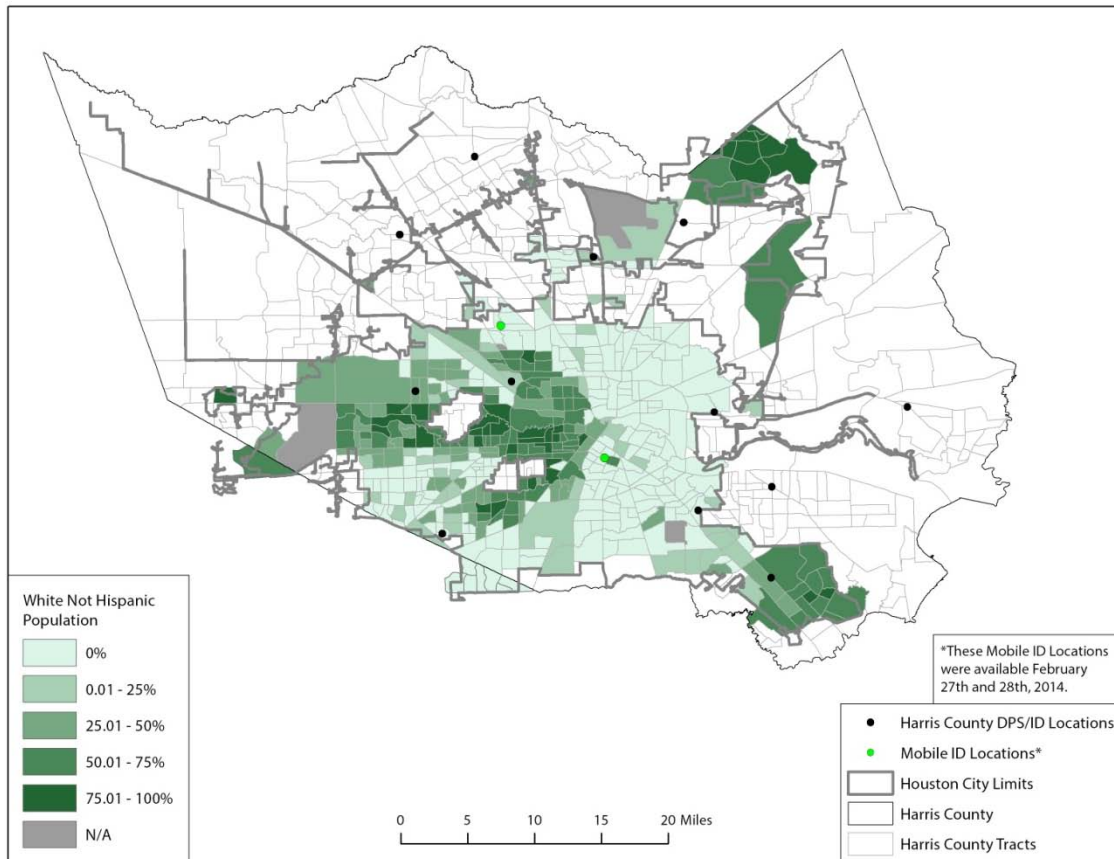


Figure 7: City of Houston, Black Non-Hispanic Population

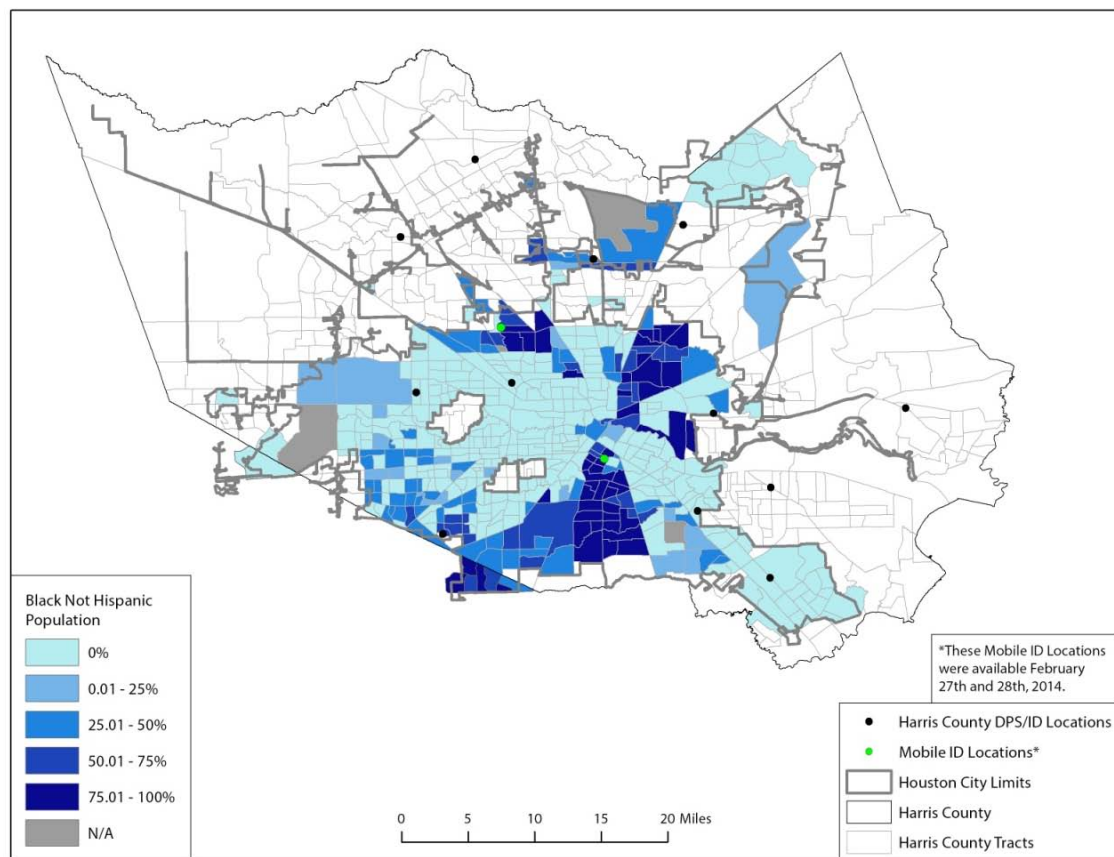


Figure 8: City of Houston, Hispanic Population

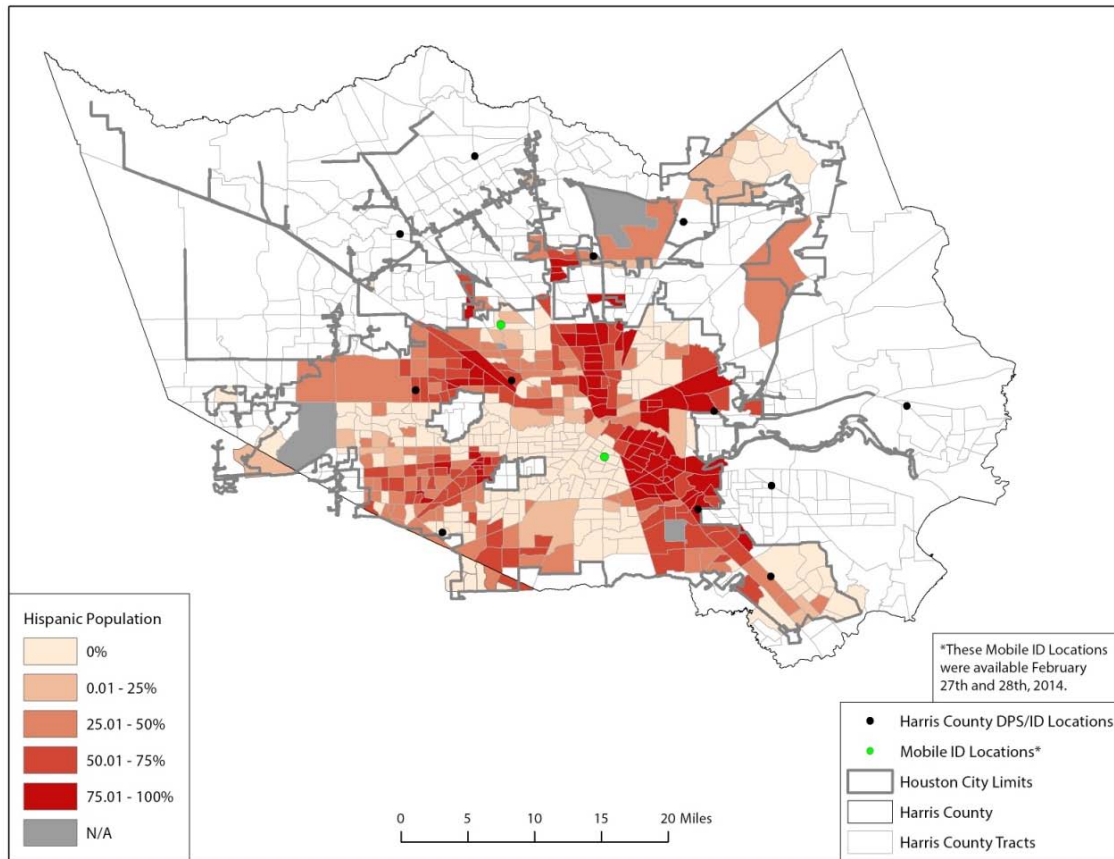


Figure 9: City of Houston, Poverty Rate

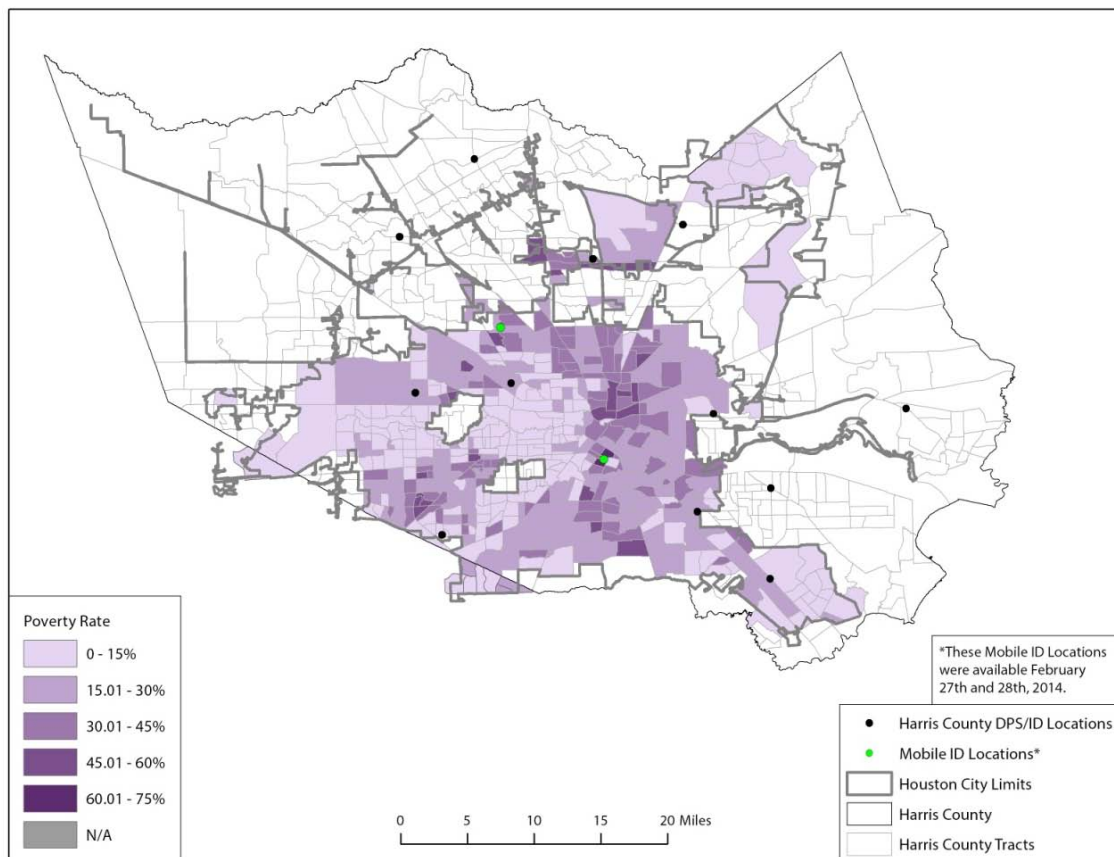


Figure 10: City of Houston, Occupied Housing Units Without Vehicle Access

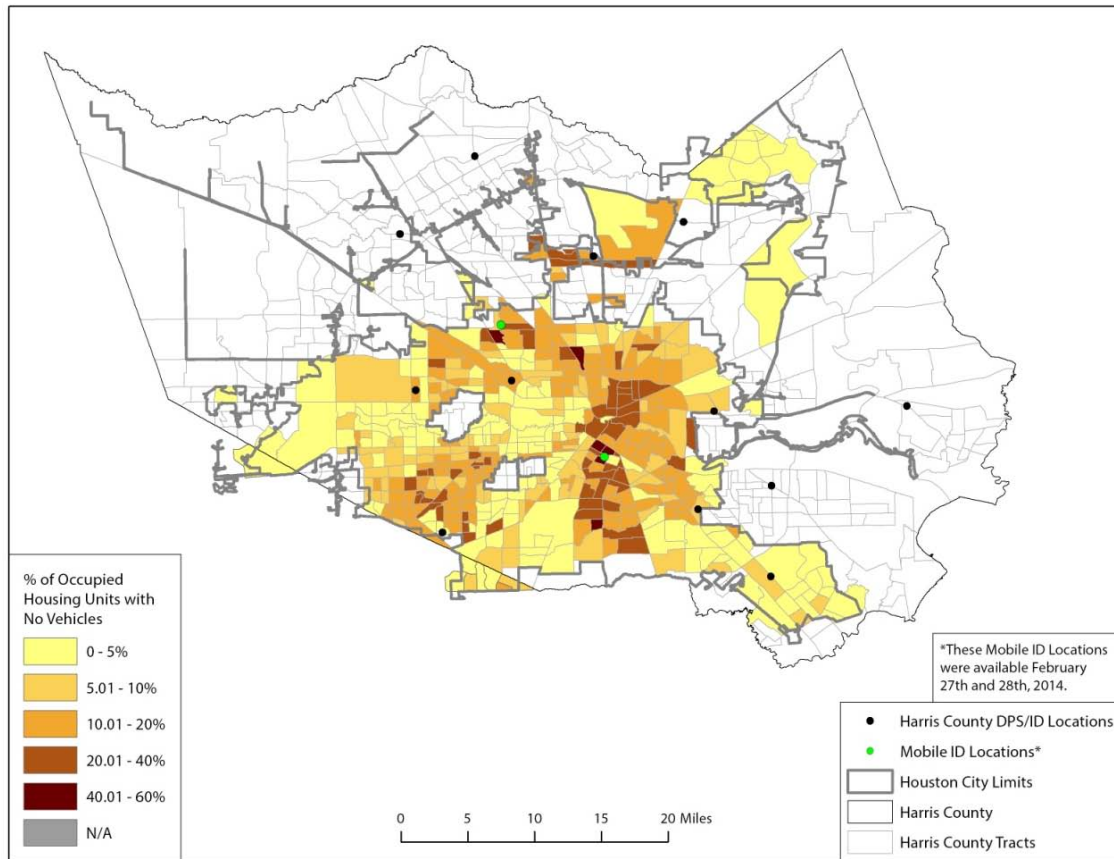


Figure 11: City of Houston, Low Vehicle Access Tracts

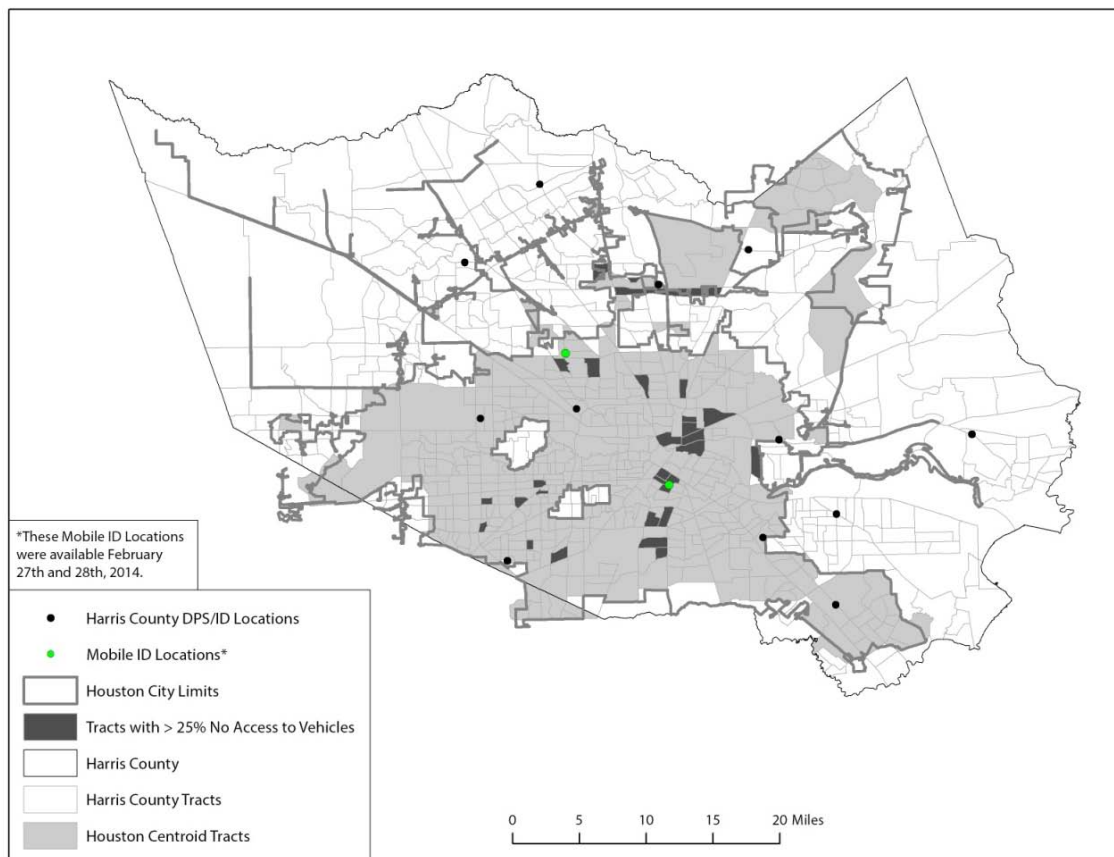
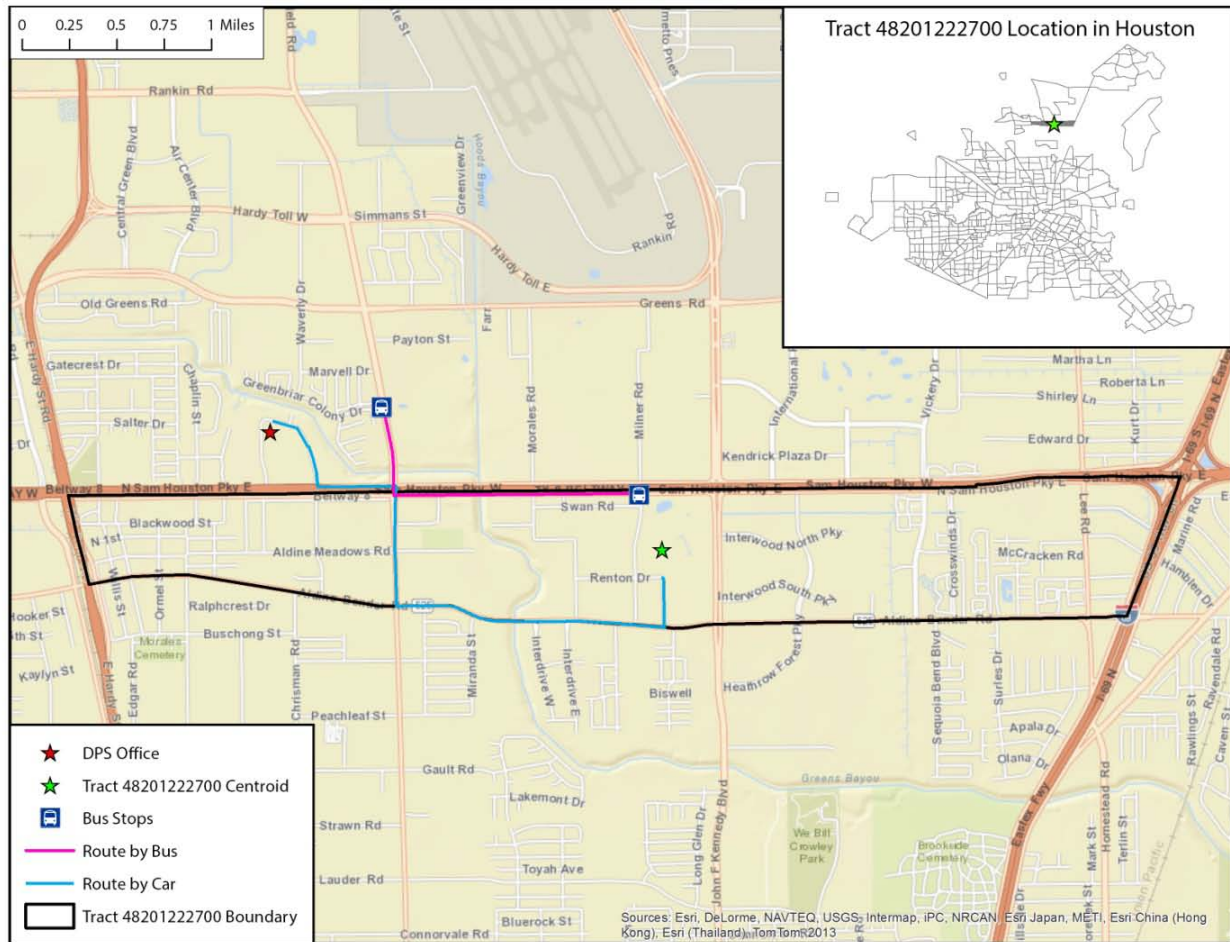


Figure 12: Sample Travel Routes by Car and Bus



38. Thirty census tracts were identified in the city of Houston with 25% or more of their household units having no access to a motor vehicle. Among these low vehicle access tracts, African American citizens constituted a plurality or majority of the citizens of voting age (CVAP) in twenty-three (including an 85% or greater supermajority in thirteen), Hispanics constituted a majority or plurality in six, and Anglos constituted a plurality in one. The tract in which Anglos are a CVAP plurality includes Bellerive, a public housing facility for senior citizens, which may artificially inflate the percentage of household units lacking motor vehicle access. In six of these 30 tracts, over 40% of household units did not have access to a motor

vehicle, with five of these six having citizen voting age populations more than 73% African American. In the sixth tract, fifty-one percent of all citizens of voting age were Hispanic.

39. In all low vehicle access tracts in which a plurality or majority of the CVAP is African American, the poverty rate for African Americans citizens was over 25%, and in fourteen of those tracts the African American citizen poverty rate was over 40%. In the low vehicle access tracts in which a plurality or majority of the CVAP is Hispanic, the poverty rate for Hispanic citizens was over 30%, and in two tracts the Hispanic citizen poverty rate was over 66%. In the sole low vehicle access tract in which a plurality of the CVAP is Anglo, the Anglo citizen poverty rate was much lower at 13.4%.

40. The average motor vehicle driving time to a fixed DPS driver license office from one of the 30 low vehicle access tracts in Houston is estimated to be 10.5 minutes. For those who lack access to a motor vehicle Houston has a well-developed and well-used mass-transit system. See METROBus and METRORail, Monthly Ridership Report, March 2014, http://www.ridemetro.org/News/Documents/pdfs/Ridership%20Reports/2014/0314_Ridership_Report_FY14.pdf. The average bus trip time from a low vehicle access tract in Houston to the nearest fixed DPS driver license office is estimated to be 66.7 minutes. A table setting out these figures for each of the low vehicle access tracts is included in Appendix 1.

41. The estimated bus travel times do not include that spent walking from a residence to the nearest bus stop, waiting for the next bus at the stop, and walking from the last bus stop to the DPS Office. For example, a potential voter residing in census tract 48201222700 would have to walk for 8 minutes to the nearest bus stop and for 16 minutes from the final bus stop to the closest DPS driver license office, according to Google Maps' walking direction estimates. Thus, while that potential voter's bus travel time would be only 4 minutes, the total time walking and

on the bus from a residence to the DPS Office in this tract is more accurately estimated to be 28 minutes, and this is only half the trip. And to reiterate, this estimate does not include time spent at the first bus stop waiting for the bus to arrive.

42. Temporary mobile units issuing EICs have been deployed in different locations around the state of Texas including Houston in both 2013 and 2014. Here I analyze those deployments from January 1 through May 15, 2014. Two mobile offices were deployed on February 27th and 28th with one being located at the Holman Street Baptist Church (3422 Holman Street, # B) and the second at Lone Star College System (4141 Victory Dr.).

43. Driving and bus travel times were recalculated for all DPS Offices and the two mobile units for February 27 and 28, 2014. The locations of the two mobile units did result in reduced travel times for the residents of 16 of the 30 census tracts. The mean travel time for residents of all 30 low vehicle access tracts fell from 10.5 minutes to 7.9 minutes, while bus travel time fell from 66.7 minutes to 44.6 minutes. Thus, the placement of the mobile units did have a positive effect. But the fact that the mobile units were only available for a total of two days calls in to question their benefits. Secondly, there remained a significant contrast between the travel time for those with access to a motor vehicle and those of necessity using the bus system with bus passengers spending 5.6 times more travel time one way to the nearest DPS Office or mobile unit providing a EIC. A table setting out travel times from each of the low vehicle access tracts to the nearest DPS Office including the mobile units as options is included in Appendix 1.

44. In sum, this analysis finds that low vehicle access tracts in Houston are largely populated by African Americans and Hispanics and that these tracts are also characterized by high rates of poverty. Economically poor potential voters without access to a motor vehicle can

use a city bus to travel to the nearest DPS Office, but the estimated mean trip travel times for the citizens in these tracts doing so is well over six times longer than for citizens in the same tracts with access to a motor vehicle. Although the temporary locations of the mobile units providing EICs in many cases reduced travel times for both motor vehicle drivers and bus passengers in the same census tracts, bus riders would still spend 5.6 times more travel time than those who have access to a motor vehicle. Secondly, the limited deployment of temporary locations calls into question their ability to mitigate barriers to obtaining an EIC.

Table 4: Travel Time to Locations to Obtain an EIC in Houston

One-Way Travel Time	All Tracts	Low Vehicle Access Tracts	Low Vehicle Access Tracts (including DPS Temporary Locations)
Minutes By Car	9.8	10.5	7.9
Minutes By Bus	n/a	66.7	44.6

Sources: Calculations were made using the ArcGIS Network Analyst extension and Ridemetro.org

San Antonio

45. The city of San Antonio is located in Bexar County and is the second largest city in Texas, with a 2010 population of 1,327,407 and a 2006-2010 ACS estimated CVAP of 844,260 residents. The latter total includes 286,551 Anglos (33.9%), 472,422 Hispanics (56.0%), and 59,344 African Americans (7.0%). Thus, San Antonio's eligible voter population is predominantly Hispanic, and it has a far smaller African American community than Houston.

46. Anglos, African Americans and Hispanics have distinct patterns of residence in San Antonio. Anglos dominate the northern third of the city with their largest concentrations in the north central portion of San Antonio. Concentrations of African Americans are found in a handful of census tracts in the far eastern central portion of the city. While concentrations of

Hispanics are located in all but the far northern portion of San Antonio, their largest concentrations are in the south central and southern parts of the city.

47. Eighteen percent of U.S. citizens living in San Antonio had incomes below the poverty level according to the 2006-2010 ACS, but there were significant contrasts between demographic groups. While nearly 22% of Hispanics and over 24% of African American citizens had incomes below the poverty level, only 9.4% of Anglos did. Poverty rates are generally greatest in the southern half of San Antonio, most particularly in some largely Hispanic areas and in some of the census tracts on the eastern margin of the city with large proportions of African Americans.

48. Household unit access to a motor vehicle differs substantially by demographic group in San Antonio. While nearly 17% of African American household units and 11% of Hispanic household units had no access to a motor vehicle 2006-2010, the rate for Anglo household units was 6%. Geographically those areas with the largest proportions of household units without access to a motor vehicle are found in the central portions of San Antonio, most particularly in census tracts dominated by Hispanics.

Table 5: CVAP, Poverty, and Vehicle Access in San Antonio by Race

	CVAP, Percent	Citizen Poverty, Percent	Household Units without Vehicle Access, Percent
Anglo	33.9%	9.4%	6.1%
Hispanic	56.0%	21.9%	10.8%
African American	7.0%	24.4%	16.6%

Source: American Community Survey Five-Year Estimates 2006-2010, Tables, B05001, B17001, B17025 & B25044

49. There were five fixed DPS Offices in Bexar County in mid-June 2014, with three of these located in the city of San Antonio. Additionally, one mobile unit visited San Antonio on Tuesday February 25th and Wednesday February 26th. The distance to a DPS Office was calculated for all U.S. citizens of voting age for all 285 census tracts in San Antonio. The average distance from all tract centroids to a DPS Office in San Antonio is 5.8 miles, and the estimated motor vehicle driving time is 9.9 minutes.

Figure 13: City of San Antonio, Anglo Population

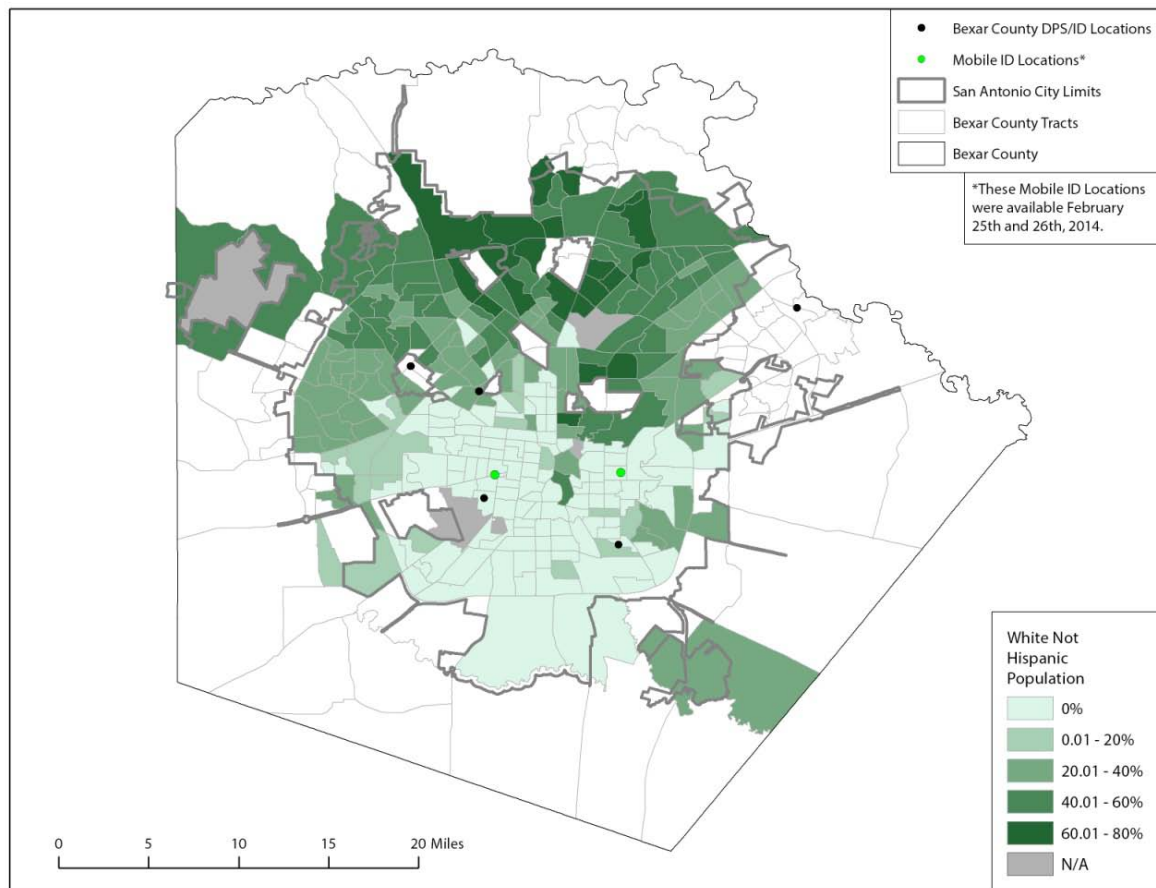


Figure 14: City of San Antonio, Black Non-Hispanic Population

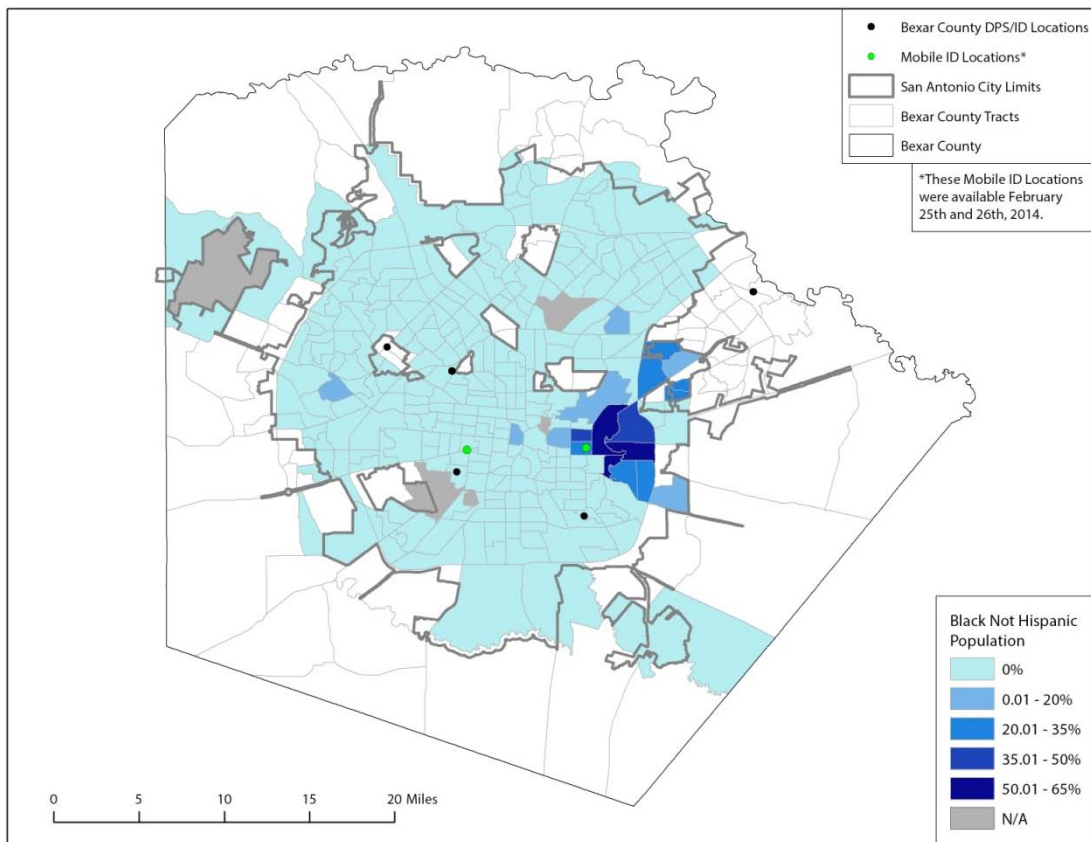


Figure 15: City of San Antonio, Hispanic Population

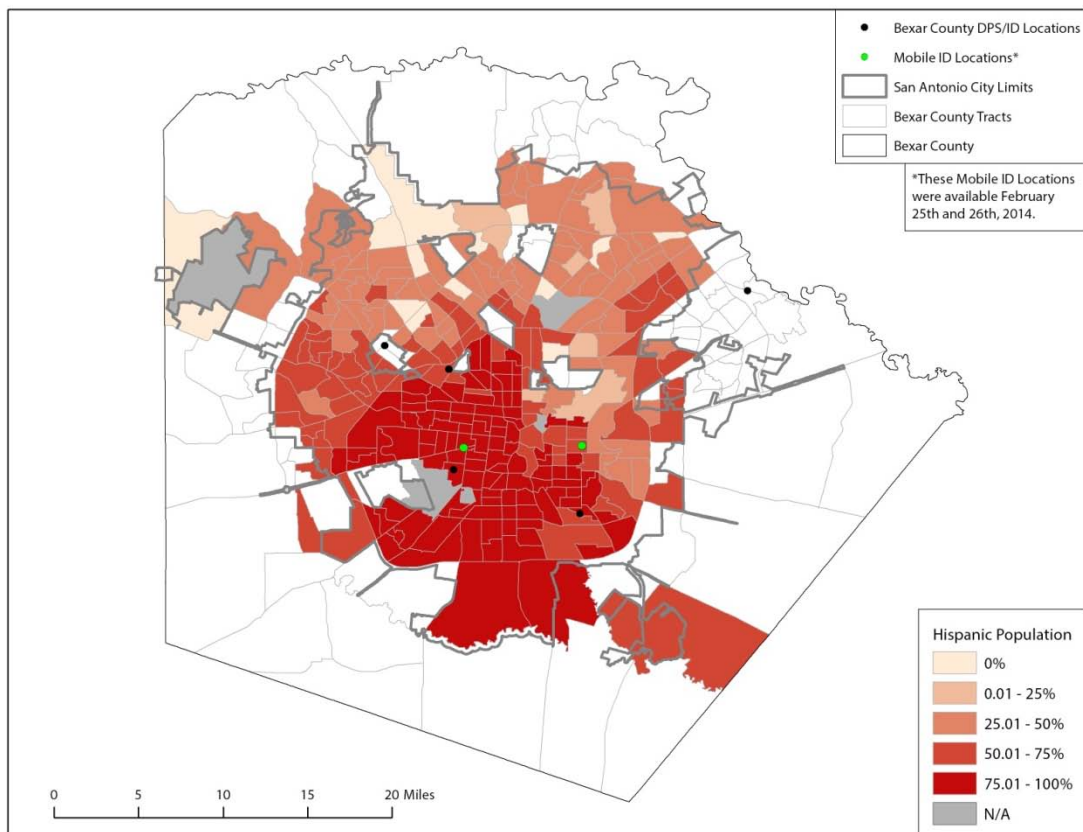


Figure 16: City of Houston, Poverty Rate

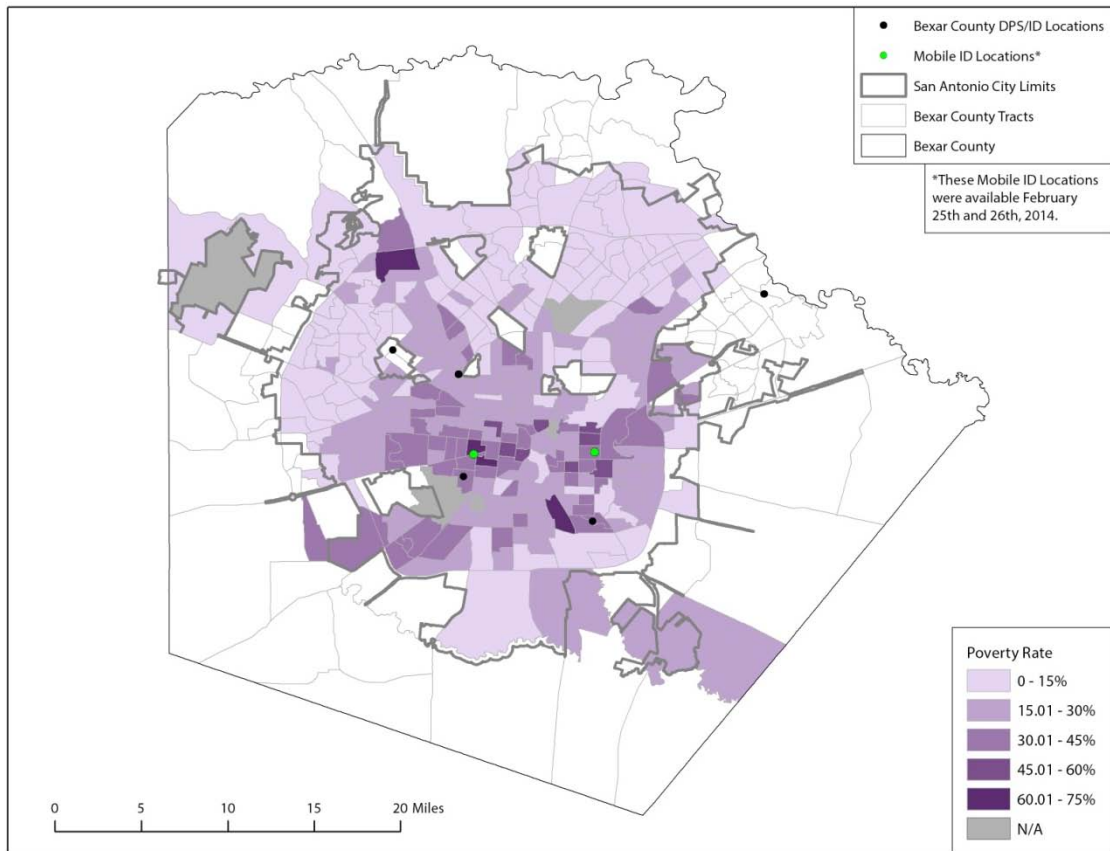


Figure 17: City of San Antonio, Occupied Housing Units Without Vehicle Access

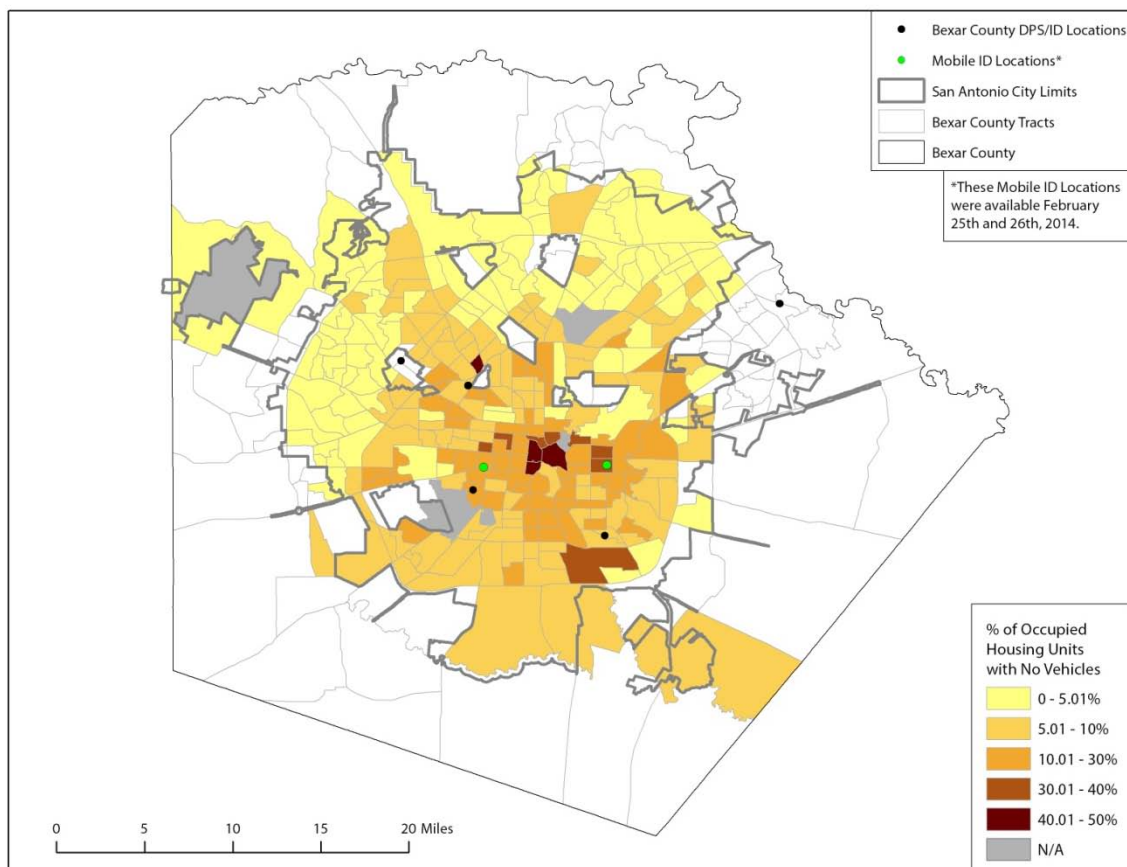
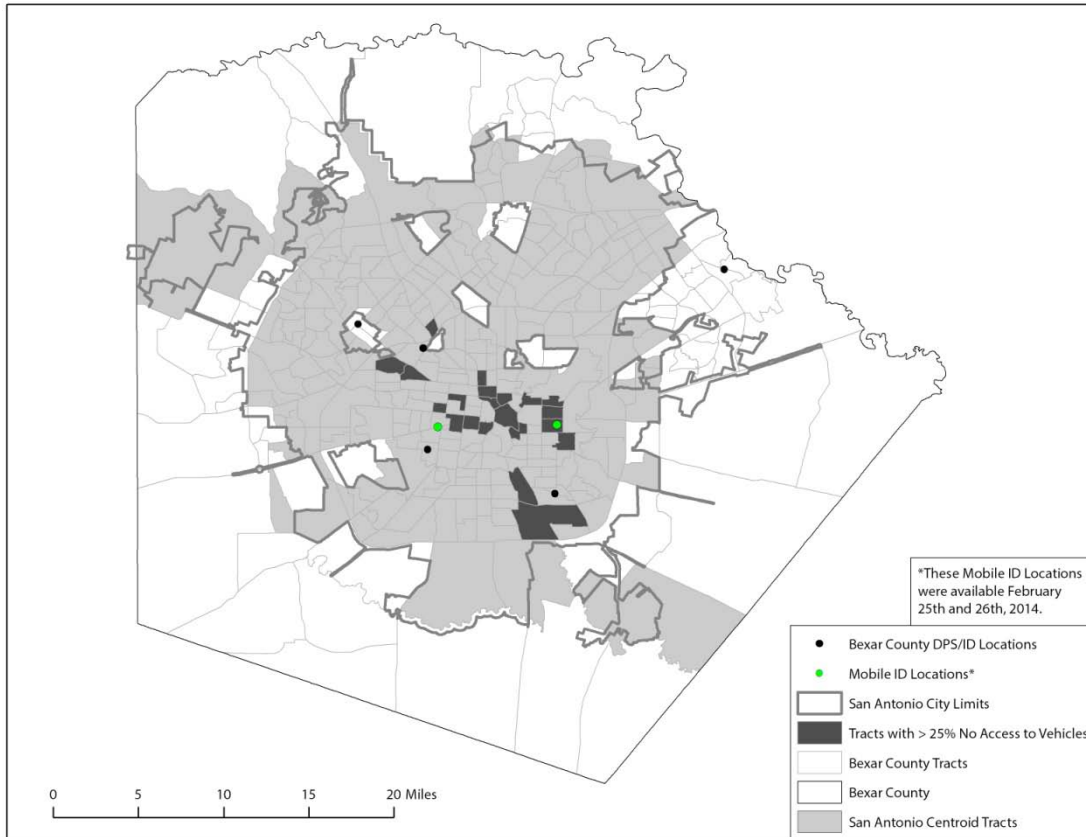


Figure 18: City of San Antonio, Low Vehicle Access Tracts



50. Twenty-two low vehicle access census tracts were identified in San Antonio. One of these (48029110600) included Bexar County Adult Detention Facility and was dropped from further analysis. Twelve of the remaining 21 census tracts had 30% or more of their household units without access to a motor vehicle, including three that were above 40%. Two of the 21 tracts had African American CVAP majorities, while the remaining nineteen had Hispanic CVAP majorities. Ten of the nineteen majority Hispanic CVAP tracts had more than 30% of their household units lacking access to a motor vehicle, and three had rates of no access greater than 40%.

51. In the two low vehicle access tracts with majority African American CVAPs at least 36% of African American citizens had incomes below the poverty level. The rate of no

access to a motor vehicle in these tracts was higher for African American household units than it was for the tract as a whole. Among the majority Hispanic low vehicle access tracts, 15 tracts had a poverty rate of more than 30%, nine had rates above 40%, and five had rates above 50%.

52. The average driving time from the centroid of the 21 San Antonio low vehicle access tracts to the nearest DPS Office was calculated as 7.5 minutes. For those without access to a vehicle, the city of San Antonio is serviced by a well-developed and well-used bus system. See VIA, *Facts & Figures*, at <http://viainfo.net/Organization/Facts.aspx>. The average bus trip from a low vehicle access tract to a fixed DPS Office location was 36.2 minutes, excluding walking to and from bus stops. A table setting out travel times from each of the low vehicle access tracts in San Antonio to the nearest DPS Office is included in Appendix 1.

53. Temporary mobile units issuing EICs have been deployed in San Antonio in both 2013 and 2014. Here I analyze the deployments in 2014, including on February 25th at the Claude Black Community Center (2805 E, Commerce St.) and on February 26th at the Las Palmas Library (525 Castroville Rd.). Because of these single-day deployments registered voters traveling to the mobile unit on February 25th who discovered they were not in possession of all required documentation would not have the option of returning to the same location to secure an EIC on February 26th.

54. Driving and bus travel times were recalculated to include both DPS Offices and the mobile units present in San Antonio on February 25 and 26, 2014. The locations of the mobile units on the two days did result in reduced travel times for the residents of 13 of the 21 census tracts. The mean travel time for residents of all 21 census tracts with access to a motor vehicle fell from 7.5 minutes to 4.9 minutes, while bus travel time fell from 36.2 minutes to 31.3 minutes during the two day period. The fact that the mobile unit was available for only

one day in two different locations seriously calls in to question its benefit. Secondly, there remained a significant contrast between the travel time for those with access to a motor vehicle and those of necessity using the bus system. A table setting out travel times from each of the low vehicle access tracts in San Antonio to the nearest DPS Office or 2014 temporary location is included in Appendix 1.

55. Overall, low vehicle access tracts in San Antonio are largely populated by Hispanics and, to a lesser degree, by African Americans. These tracts are also generally characterized by high rates of poverty. Economically poor potential voters without access to a motor vehicle can use a city bus to travel to the nearest DPS Office, but the estimated trip travel times for these citizens are nearly five times longer than for citizens residing in the same census tract with access to a motor vehicle. While the two single-day deployments of a mobile unit did reduce one way travel times for both those with access to a motor vehicle and those of necessity using the bus system, the brevity of the deployment calls into question the demonstrable benefits of the mobile units. Secondly, even with the decreases in travel times there remained significant contrasts between the estimated times for those with access to a motor vehicle and those using the city bus service. Eligible voters using the bus system will spend 6.4 times more time one way to visit either a DPS Office or mobile unit than those with access to a motor vehicle in the same census tract.

Table 6: Travel Time to Locations to Obtain an EIC in San Antonio

One-Way Travel Time	All Tracts	Low Vehicle Access Tracts	Low Vehicle Access Tracts (including DPS Temporary Locations)
Minutes By Car	9.9	7.5	4.9
Minutes By Bus	n/a	36.2	31.3

Sources: Calculations were made using the ArcGIS Network Analyst extension and Viva.org.

Dallas

56. Dallas is located in Dallas County and is the third largest city in Texas with a 2010 population of 1,197,817 and a CVAP of 661,962. Anglos account for 45% of the citizen voting age population (CVAP) in Dallas, followed by African Americans (30.8%), and Hispanics (20.2%). Of the three cities examined, Dallas has by proportion the largest Anglo (45%) citizen voting age population and the smallest Hispanic (20.2%) citizen voting age population. The Anglo population is concentrated in the northern portion of Dallas, while the African American population is concentrated in the southern portion of the city. The Hispanic population has geographic concentrations on both the east and west sides.

57. The poverty rate within the city of Dallas was 20.7% according to 2006-2010 ACS estimates. This rate varied substantially by demographic group with only 7.7% of Anglo U.S. citizens but 27.6% of Hispanic U.S. citizens and 30.2% of African American U.S. citizens having incomes below the poverty level. Geographically the most significant pockets of poverty in Dallas are located in the southern and south central portions of the city, most particularly in areas with high proportions of African Americans.

58. Household unit access to motor vehicles in Dallas also varies by demographic group. While 9.9% of household units in Dallas did not have access to a motor vehicle, the rate for Anglo household units was nearly half the citywide rate at 5.3%. In comparison, 6.9% of Hispanic household units and 20.7% of African American household units did not have access to a motor vehicle. Geographically those household units lacking access to a motor vehicle tend to be located in the central and southern portions of the city, though there are several tracts in the northeast part of Dallas with proportions above the citywide proportion as well. These tracts generally have substantial African American or Hispanic populations.

Table 7: CVAP, Poverty, and Vehicle Access in Dallas by Race

	CVAP, Percent	Citizen Poverty, Percent	Households without Vehicle Access, Percent
Anglo	45.0%	7.7%	5.3%
Hispanic	20.2%	30.2%	6.9%
African American	30.8%	27.6%	20.7%

Source: American Community Survey Five-Year Estimates 2006-2010, Tables, B05001, B17001, B17025 & B25044

59. The geographic distribution of DPS Offices or mobile offices providing EICs is one factor determining whether different groups are affected differently when trying to secure appropriate identification to vote. There are two DPS Offices in the city of Dallas and six more relatively near the municipal boundary and within Dallas County. Additionally, one mobile unit providing EICs visited Dallas in 2014, on Tuesday February 18, which is considered separately below. The distance to a DPS Office was calculated for all U.S. citizens of voting age for all 302 census tracts with centroids within the municipal boundary of the city of Dallas. The average distance from all tract centroids to a DPS office in Dallas is 7.1 miles and the estimated travel time by car is 11.3 minutes.

Figure 19: City of Dallas, Anglo Population

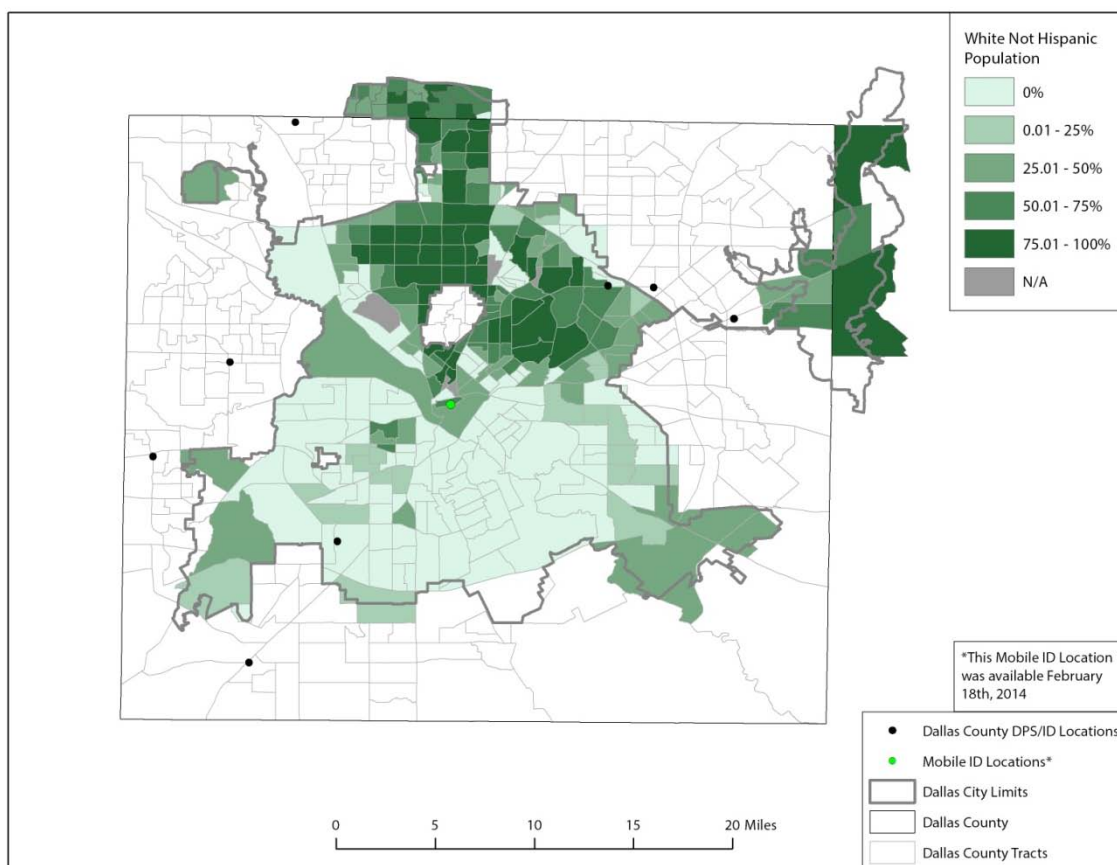


Figure 20: City of Dallas, Black Non-Hispanic Population

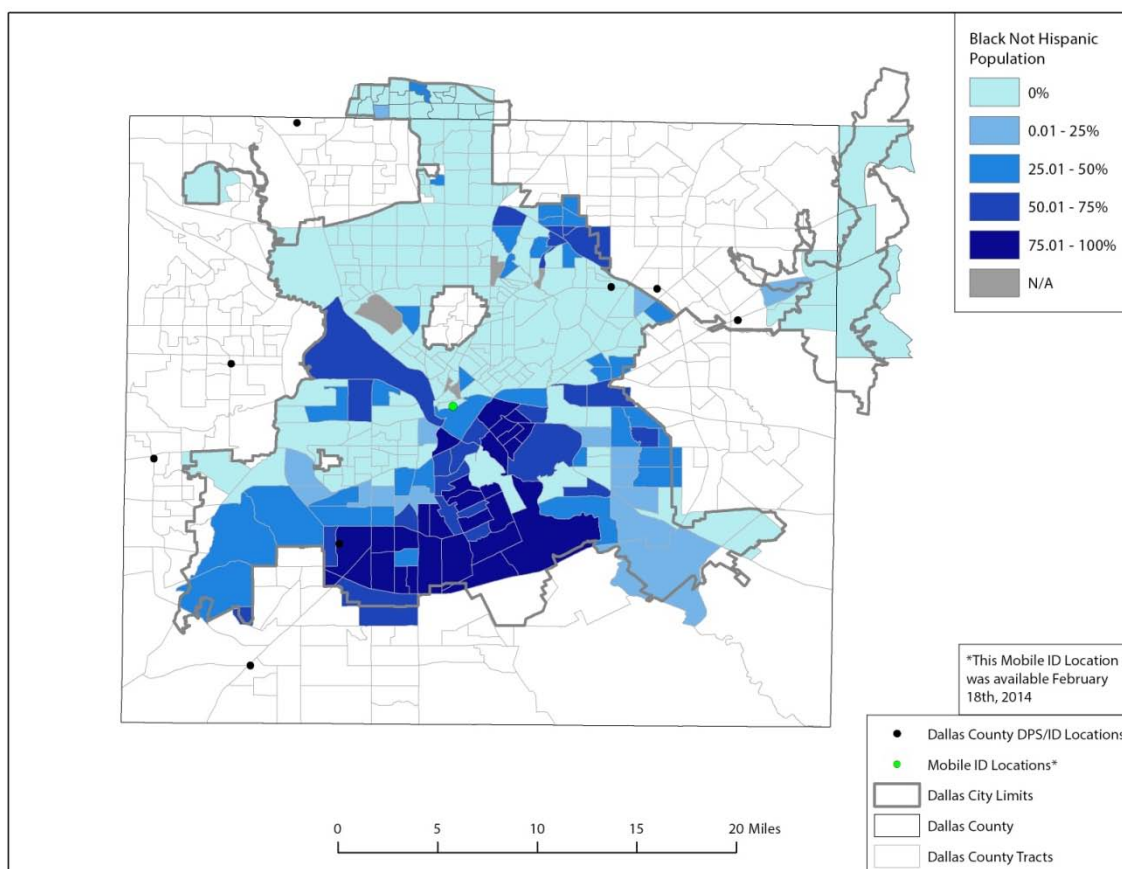


Figure 21: City of Dallas, Hispanic Population

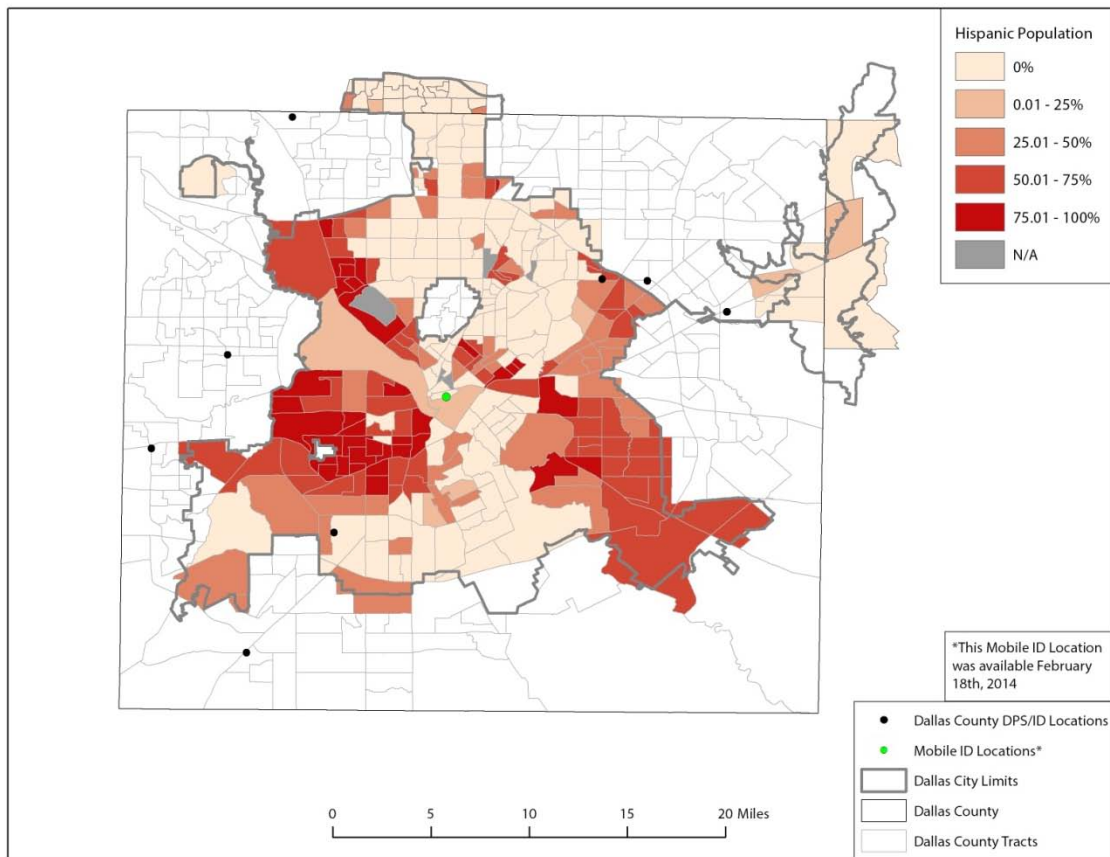


Figure 22: City of Dallas, Poverty Rate

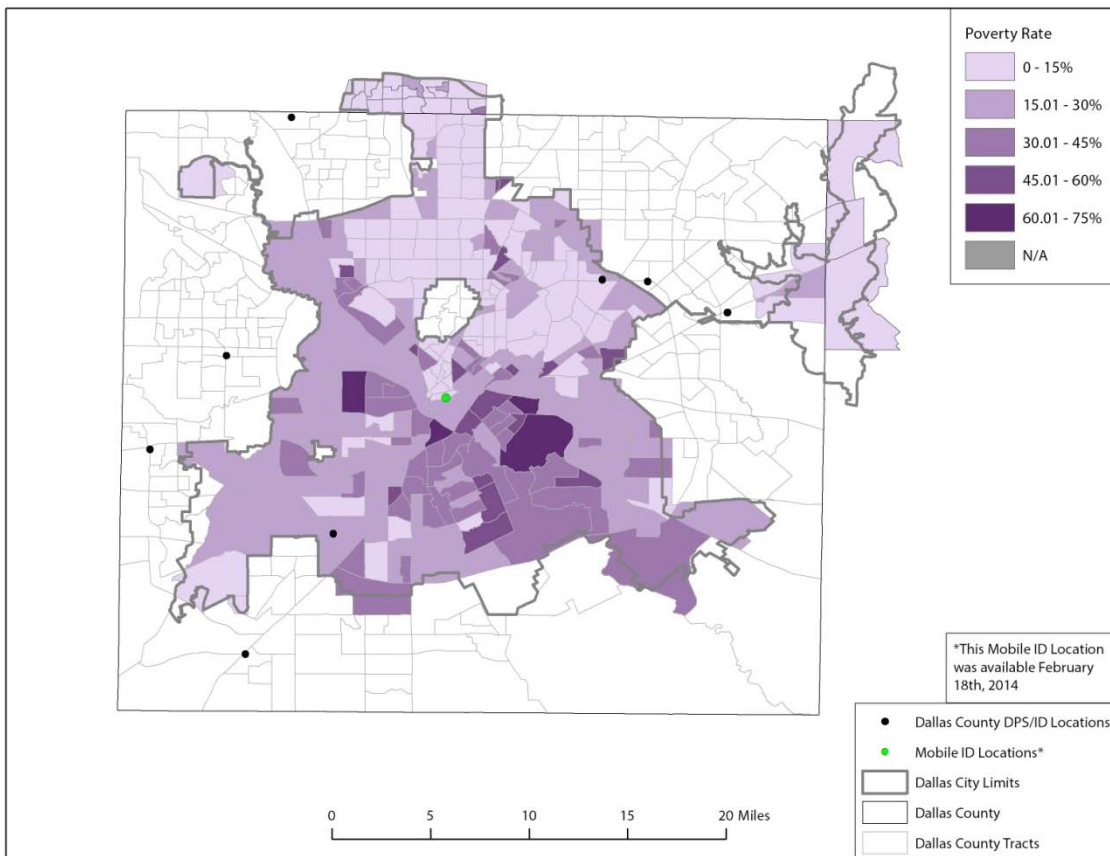


Figure 23: City of Dallas, Occupied Housing Units Without Vehicle Access

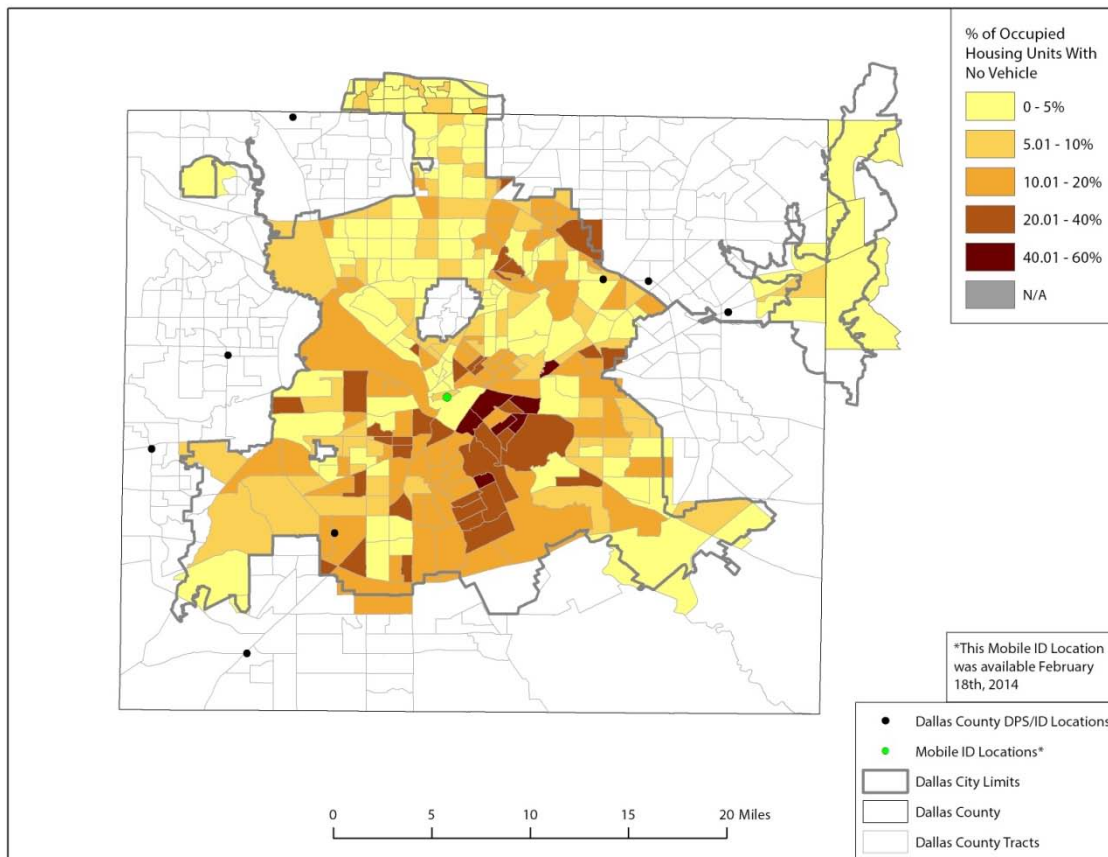
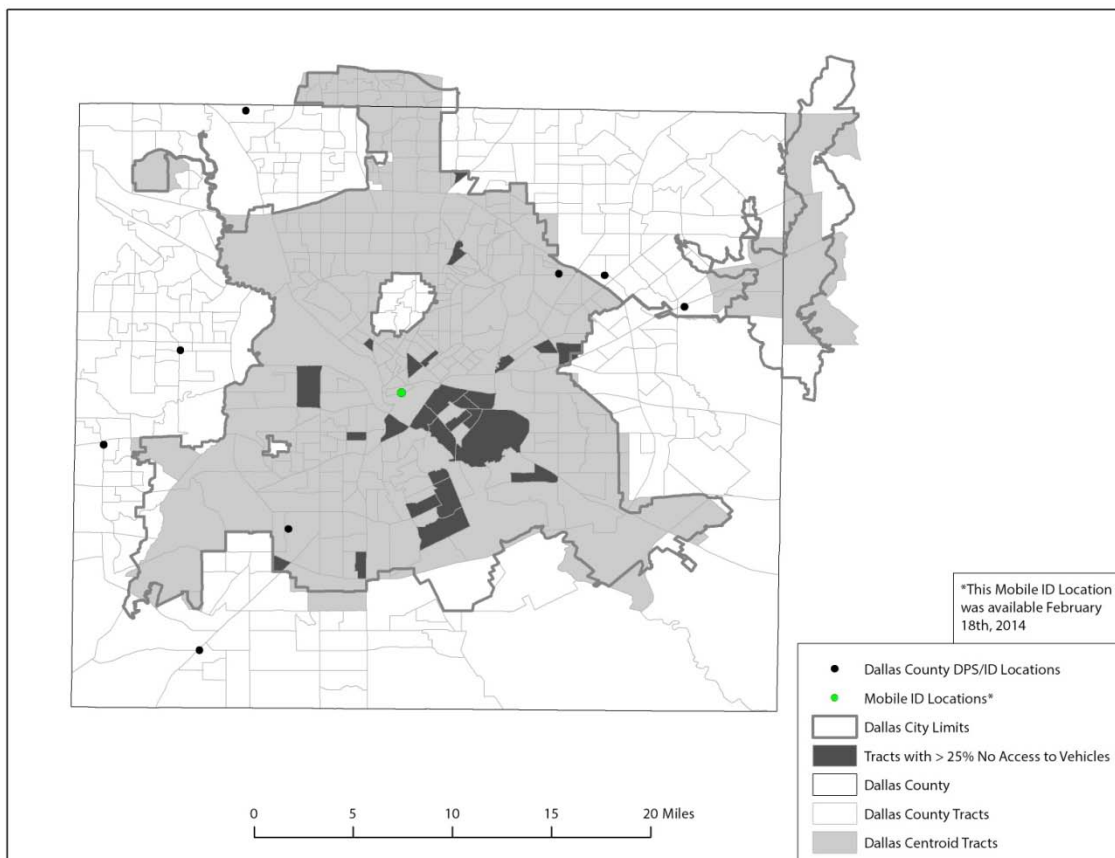


Figure 24: City of Dallas, Low Vehicle Access Tracts



60. Nearly ten percent of household units in Dallas do not have access to a motor vehicle making the above distance and time calculations to a DPS Office largely irrelevant to potential voters living in these household units. This analysis identified 26 census tracts in Dallas in which more than twenty-five percent of the household units had no access to a motor vehicle. Included in these 26 low vehicle access tracts were 21 that were majority or plurality African American CVAP, four that were majority or plurality Hispanic CVAP, and one had a majority Anglo CVAP.

61. African American household units were more likely than all household units to lack access to a motor vehicle in the majority or plurality African American CVAP tracts. These tracts also exhibit high poverty rates with fifteen of these tracts having more than 40% of African American citizens living below the poverty level. Among Hispanic CVAP majority or plurality low vehicle access tracts more than 40% of Hispanic citizens had incomes below the poverty level. In the sole majority-Anglo CVAP low vehicle access tract nearly a third of Anglo citizens lived below the poverty level.

62. The average estimated driving time with a motor vehicle from the centroid of the 25 low vehicle access tracts in Dallas to the nearest DPS Office was calculated as 12.8 minutes. For those without access to a motor vehicle, the city of Dallas is served by a well-developed and well-used bus system. See DART, *Facts About Dallas Area Rapid Transit*, <http://www.dart.org>. The average bus trip travel time (excluding walking) from a low vehicle access tract in Dallas to a DPS Office was 59.7 minutes. A table setting out travel times from each of the low vehicle access tracts to the nearest DPS Office is included in Appendix 1.

63. Temporary mobile units issuing EICs were deployed in Dallas in both 2013 and 2014. In 2014, Dallas had a single mobile unit deployed for a single day at the J. Erik Jonsson

Central Library (1515 Young St.). This schedule limits the degree to which this temporary location reduces barriers to obtain an EIC.

64. Driving and bus travel times were recalculated for all DPS Offices and the single mobile unit available on February 18th. The location of the single mobile unit did result in reduced travel times for the residents of 19 of the 26 census tracts. For example, the mean travel time for residents of all 26 census tracts with access to a motor vehicle fell from 12.8 minutes to 7.8 minutes, while mean bus travel time fell from 59.7 minutes to 33.5 minutes. Thus, the placement of the mobile units did have a positive effect. But the fact that the mobile unit was only available for a single day calls in to question its benefits. Secondly, there remained a significant contrast between the travel time for those with access to a motor vehicle and those of necessity using the bus system in the same census tract, with bus passengers spending 4.1 times more travel time each way to the nearest DPS Office or mobile unit. A table setting out travel times from each of the low vehicle access tracts to the nearest DPS Office or mobile unit location is also included in Appendix 1.

65. This analysis finds that Dallas census tracts with large proportions of household units without access to a motor vehicle are overwhelmingly populated by African Americans, and to a lesser degree Hispanics. There is a single tract with majority Anglo CVAP. These 26 tracts are also characterized by high rates of poverty. Economically poor potential voters without access to a motor vehicle can use a city bus to travel to the nearest DPS office, but the estimated trip travel time for these citizens to arrive at the DPS Office is nearly five times longer than for someone driving a motor vehicle. The mobile unit deployed to Dallas on February 18, 2014 did reduce average travel times for both motor vehicle and bus travel times on that day. But since the mobile unit was deployed for only a single day its value in

facilitating increased access to EICs is questionable. Finally, even considering the reduced travel times on February 18th, bus passengers would still have spent over four times more one-way travel time than motor vehicle travelers in the same census tract to arrive at either a DPS Office or the mobile unit.

Table 8: Travel Time to Locations to Obtain an EIC in Dallas

One-Way Travel Time	All Tracts	Low Vehicle Access Tracts	Low Vehicle Access Tracts (including DPS Temporary Locations)
Minutes By Car	11.3	12.8	7.8
Minutes By Bus	n/a	59.7	33.5

Sources: Calculations were made using the ArcGIS Network Analyst extension and Dart.org.

NO MATCH LIST

66. This final section pertains to data in the “no match list” developed by Professor Stephen Ansolabehere. The data set used here includes all Texas registered voters for whom there are census tract locations in the state of Texas, and the no match list consists of voters who do not possess any of the required forms of identification to cast an in-person vote on election day and who have not successfully applied for a disability-based exemption from the identification requirements. Deceased voters identified through DPS records have been purged from the data set. The “no match list” consists of those registered voters who could arrive at the polls and find they are unable to cast a regular valid ballot.

Figure 25: State of Texas, Lack of SB 14 ID

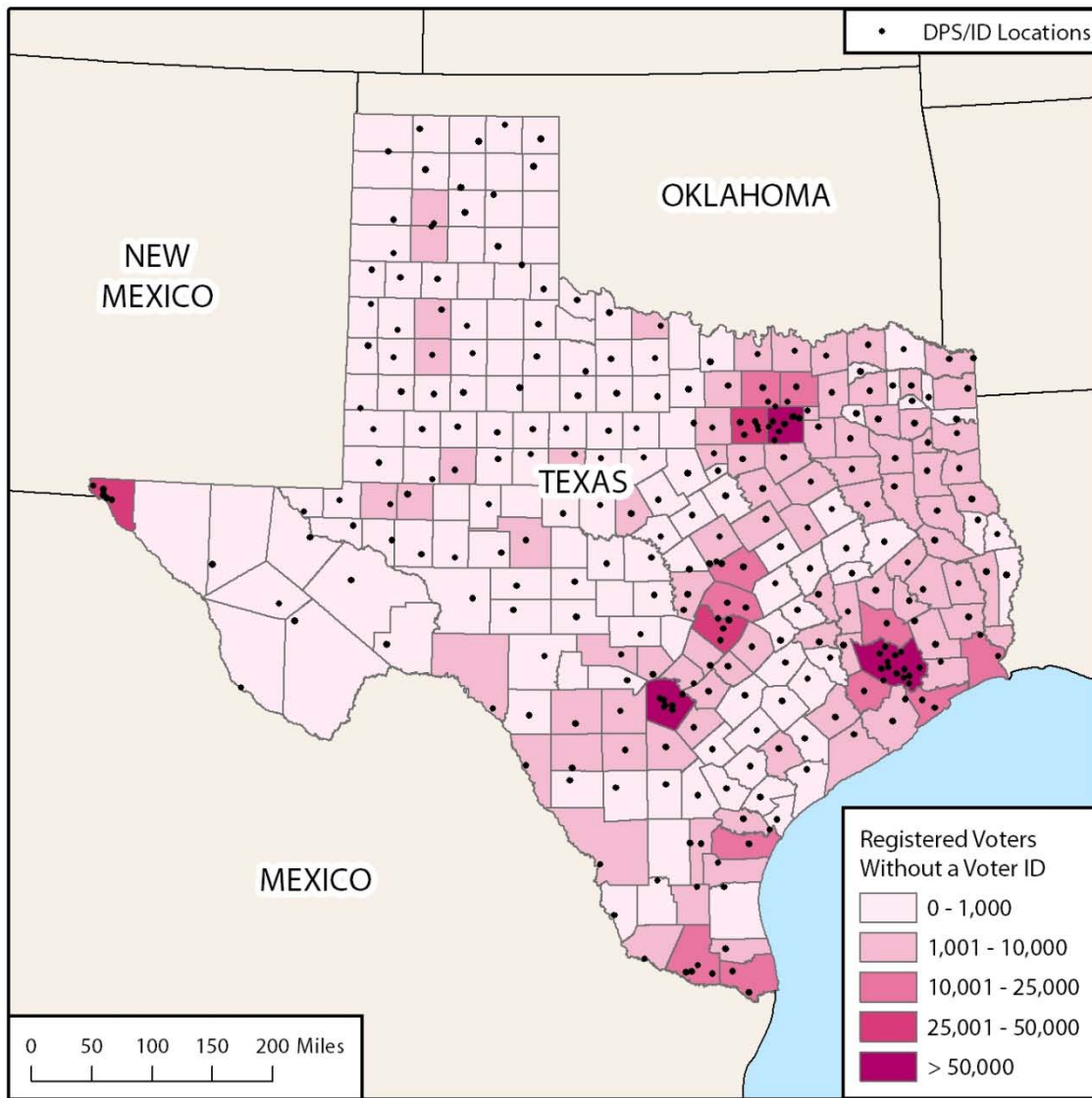


Figure 26: State of Texas, Lack of SB 14 ID Rate

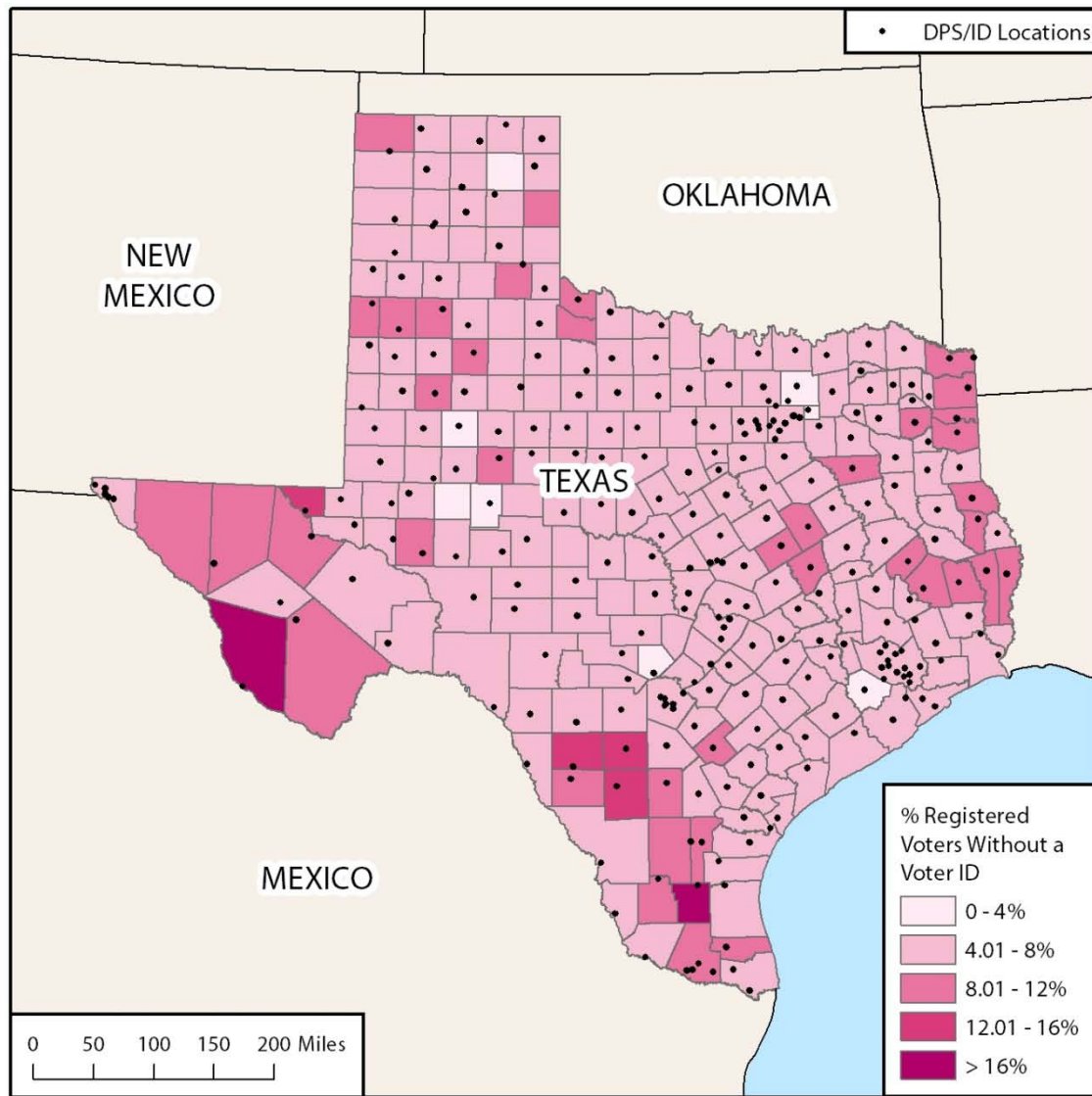


Figure 27: City of Houston, Lack of SB 14 ID Rate

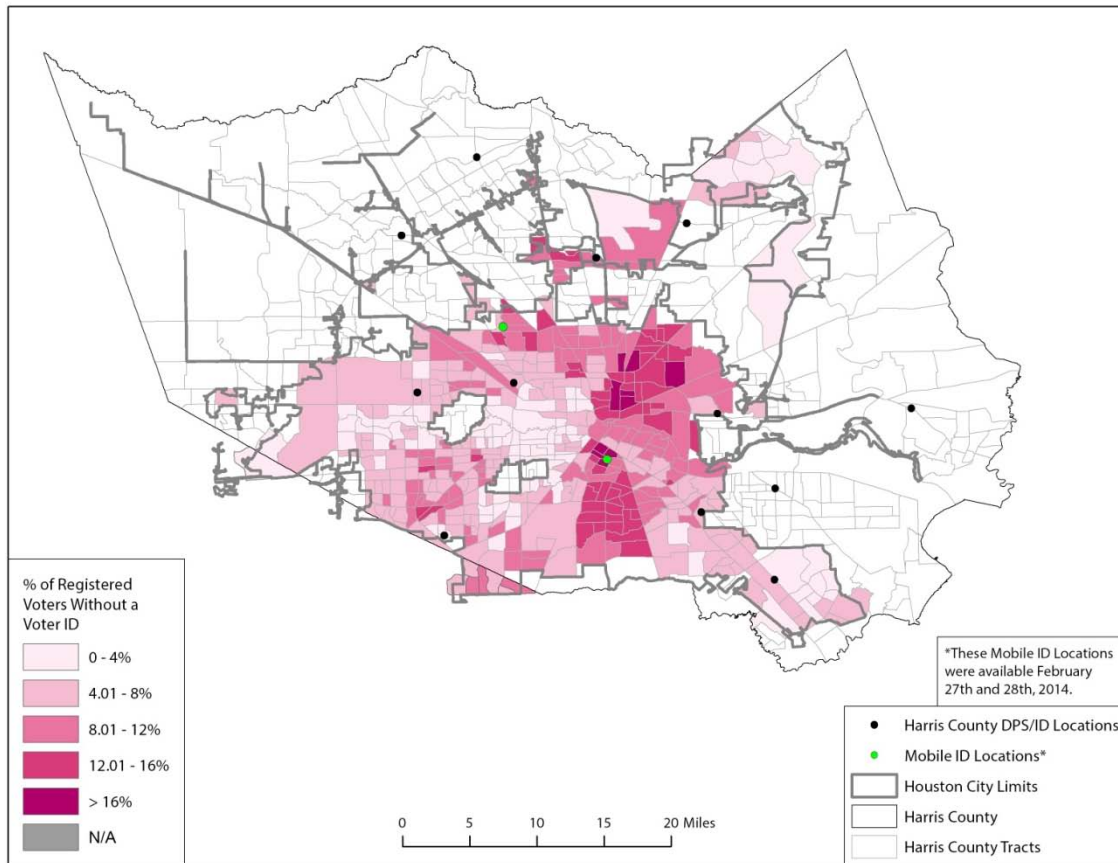


Figure 28: City of Sam Antonio, Lack of SB 14 ID Rate

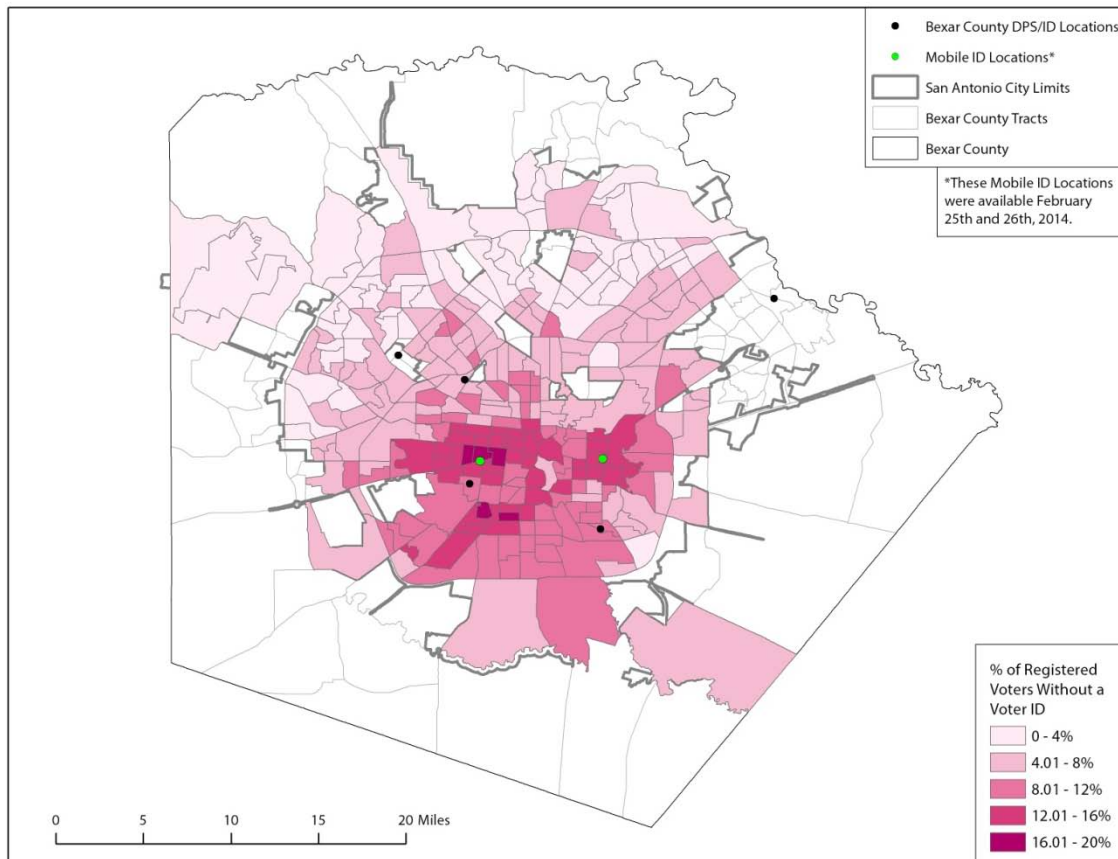
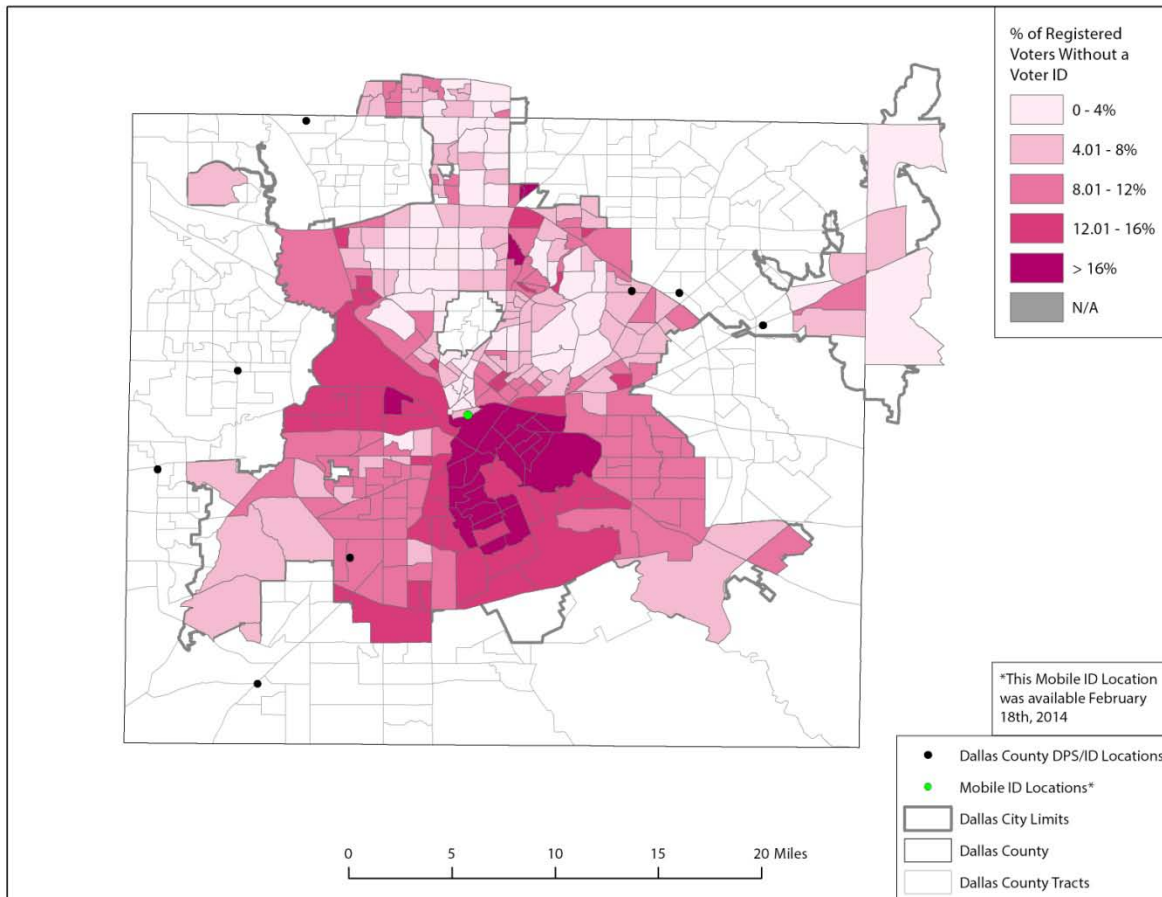


Figure 29: City of Dallas, Lack of SB 14 ID Rate



67. In total there are 784,396 registered voters in Texas without a form of identification required by SB 14 to cast a regular in-person ballot. This figure is 5.8% of all registered voters in Texas. The problem is much greater in those 138 Texas census tracts in which more than a quarter of the household units do not have access to a motor vehicle. In these tracts, 26,262 or 13.2% of all registered voters do not possess the required identification to cast a regular vote. A review of Figure 26 indicates that there are three primary concentrations of counties in Texas with comparatively high proportions of registered voters without the identification required by SB 14: counties in the far eastern portion of the state with many having comparatively high concentrations of African Americans (see Figure 2); a cluster of counties in

South Texas which have high concentrations of Hispanics (see Figure 3); and the cluster of counties in far western Texas which have comparatively high proportions of Hispanics (see Figure 3).

68. When considering all census tracts with their centroids in the city limits of Houston, there are 66,952 registered voters without the identification required by SB 14. This figure constitutes 6.9% of all registered voters in Houston. The situation is far worse in the 30 census tracts in which more than a quarter of the household units do not have access to a motor vehicle. See Tables 4A, 4B and 4C, Appendix 1. In these tracts there are 6,434 registered voters without the required identification, or 13.5% of all registered voters in these 30 tracts. It should be reiterated that in 29 of these 30 census tracts African American or Hispanic citizens of voting age constitute a plurality or majority of the citizen voting age population.

69. When considering all census tracts with their centroids in the city limits of San Antonio, there are 46,084 registered voters without the identification required by SB 14. This figure constitutes 6.8% of all registered voters. The situation is far worse in the 21 census tracts in San Antonio in which more than a quarter of the household units are without access to a motor vehicle. See Tables 6A and 6B, Appendix 1. In these tracts there are 3,642 registered voters without the needed identification. This number is 12.2% of all registered voters in these 21 census tracts. African Americans and Hispanics constitute a majority or plurality of the citizen voting age population in all 21 of these census tracts.

70. When considering all census tracts with their centroids in the city limits of Dallas, there are 49,387 registered voters without the identification required by SB 14. This figure constitutes 8.2% of all registered voters. The situation is far worse in the 26 low vehicle access census tracts in Dallas. See Tables 8A, 8B and 8C, Appendix 1. In these tracts there are 5,965

registered voters without the forms of identification required by SB 14. This figure is 15.1% of all registered voters in these tracts. African Americans or Hispanics constitute a majority or plurality of the citizen voting age populations in 25 of these 26 census tracts.

Table 9: Registered Voters in Texas and Selected Cities
Without Needed Identification Under SB 14

Location	Total Registered Voters	Total Registered Voters without SB 14 ID	Percent Registered Voters without SB 14 ID
State of Texas	13,462,610	784,396	5.8%
Low Vehicle Access Tracts in Texas*	198,397	26,262	13.2%
City of Houston*	966,820	66,952	6.9%
Low Vehicle Access Tracts in Houston**	47,780	6,434	13.5%
City of San Antonio*	682,056	46,084	6.8%
Low Vehicle Access Tracts in San Antonio**	29,860	3,642	12.2%
City of Dallas*	601,232	49,387	8.2%
Low Vehicle Access Tracts in Dallas**	39,594	5,965	15.1%

SOURCE: Data in the no match list were provided by the U.S. Department of Justice.

*Analysis includes all census tracts with their centroids located within the municipal boundary of the respective city.

**Low vehicle access tracts are defined as those in which more than 25% of the household units do not have access to a motor vehicle. There are 139 such tracts in the State of Texas, 30 in Houston, 21 in San Antonio and 26 in Dallas. See Tables 4A, 4B & 4C, Tables 6A & 6B and Tables 8A, 8B and 8C for the tract numbers in the three cities.

71. Pearson's correlation analysis was used to determine if there were statistical associations between the percent of registered voters on the no match list without the forms of identification required by SB 14 and percent Anglo CVAP, percent African American CVAP,

percent Hispanic CVAP and selected socioeconomic variables at the census tract level. For the state as a whole there were substantial and statistically significant positive associations between the percentage of registered voters on the no match list and percent African American CVAP, percent Hispanic CVAP, the poverty rate, and the percentage of household units without access to a motor vehicle. There was a substantial and statistically significant negative association between percent Anglo CVAP and the percentage of registered voters on the no match list. These correlations strongly suggest that higher percentages of registered voters without the required identification by SB 14 are found in census tracts with higher percentages of African American and Hispanic citizens of voting age, higher rates of poverty, more limited access to motor vehicles, and lesser percentages of Anglo citizens of voting age.

72. Associations similar to those described above were found in Houston, San Antonio, and Dallas. In all three cities higher proportions of registered voters on the no match list were associated with higher proportions of African American and Hispanic citizens of voting age, higher rates of poverty, and more limited access to motor vehicles by household units. In all three cities the proportion of Anglo citizens of voting age was substantially associated with lesser percentages of registered voters on the no match list.

Table 10: Pearson's Correlation Coefficients
with Percent of Registered Voters on the No Match List

	Texas (N=5,234)	Houston (N=458)	San Antonio (N=285)	Dallas (N=302)
Anglo CVAP Percent	-0.563**	-0.723**	-0.775**	-0.785**
African American CVAP Percent	0.409**	0.664**	0.212**	0.650**
Hispanic CVAP Percent	0.323**	0.177**	0.717**	0.257**
Poverty Rate	0.600**	0.756**	0.699**	0.790**
No Access to a Motor Vehicle Percent	0.576**	0.717**	0.688**	0.699**

** Correlation is significant at the 0.01 level (2-tailed).

CONCLUSIONS

73. The time required to travel to and from a DPS Office can pose significant obstacles and include significant costs to a voter attempting to obtain an EIC, with the burden falling most heavily on potential voters who lack access to a motor vehicle. The cities of Houston, San Antonio, and Dallas contain more than half of the census tracts in Texas in which more than 25% of households do not have access to a motor vehicle. In all three cities these low vehicle access census tracts are overwhelmingly populated by African Americans and Hispanics and exhibit high rates of poverty. Although all three cities have well developed and well utilized bus systems, their use increases trip travel time several fold over the use of a motor vehicle. While temporary DPS offices can reduce travel times, their highly limited deployment minimizes if not negates any ameliorative effect on those attempting to secure an EIC.

74. The analysis of the no match list indicates that census tracts with greater percentages of Hispanic and African American citizens of voting age tend to have higher percentages of registered voters without the forms of identification required by SB 14. The correlations were particularly strong between percent African American CVAP and the percent of voters on the no match list in Houston and Dallas, and percent Hispanic CVAP and the percent of voters on the no match list in San Antonio. This analysis further determined that census tracts with higher rates of poverty and more limited access to motor vehicles also tend to have higher percentages of registered voters without the forms of identification required by SB 14.

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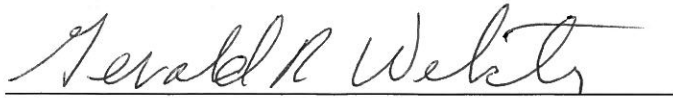
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Appendices

- 1) Tables
- 2) Supplemental Maps
- 3) Declarations
- 4) Vita

I declare under penalty of perjury the foregoing is true and correct. Executed this 15th day of August, 2014.

A handwritten signature in cursive script, reading "Gerald R. Webster", is written over a horizontal line.

Gerald R. Webster

Appendix 1

Table 4A: Selected Characteristics of Houston Census Tracts Having 25% of More of Household Units Without Access to a Motor Vehicle: Tracts with a Majority of Plurality of African American Citizens of Voting Age

Tract	Households without Vehicle Access	African American CVAP	African American Citizen Poverty	African American Households without Vehicle Access	One-Way Time to DPS by Car*	One-Way Time to DPS by Bus**	No-Match Registered Voters	No-Match Rate
48201312200	56.7%	92.9%	68.2%	56.3%	12 minutes	68 minutes	208	17.2%
48201331400	54.9%	97.4%	53.8%	56.4%	15 minutes	112 minutes	158	13.1%
48201312800	51.4%	94.5%	69.5%	48.5%	13 minutes	52 minutes	368	21.8%
48201312300	44.9%	86.6%	31.1%	48.1%	13 minutes	84 minutes	186	16.0%
48201532001	41.0%	73.5%	65.8%	49.6%	9 minutes	24 minutes	235	12.2%
48201211300	35.4%	89.9%	60.3%	38.3%	9 minutes	22 minutes	407	14.8%
48201312400	34.6%	90.2%	42.9%	43.1%	12 minutes	82 minutes	212	17.0%
48201211000	34.5%	88.5%	42.4%	38.1%	12 minutes	25 minutes	197	17.0%
48201211400	33.7%	70.9%	39.7%	46.5%	9 minutes	35 minutes	238	11.4%
48201531800	31.5%	90.6%	26.5%	32.3%	9 minutes	80 minutes	220	12.7%
48201220800	31.2%	73.4%	52.7%	43.0%	12 minutes	76 minutes	207	16.7%

48201550200	30.6%	80.3%	45.0%	39.3%	13 minutes	54 minutes	143	12.3%
48201422401	30.2%	58.7%	36.7%	17.2%	5 minutes	79 minutes	114	7.4%
48201313600	29.5%	94.5%	36.6%	33.1%	13 minutes	116 minutes	420	14.5%
48201222600	28.8%	46.2%	59.3%	60.0%	8 minutes	51 minutes	89	11.9%
48201433502	27.9%	49.5%	43.8%	32.5%	8 minutes	42 minutes	125	10.3%
48201313800	27.6%	95.6%	47.2%	29.3%	13 minutes	106 minutes	349	14.1%
48201222700	27.4%	69.2%	58.9%	35.7%	5 minutes	4 minutes	255	11.7%
48201331200	26.5%	94.2%	26.1%	28.7%	14 minutes	117 minutes	309	12.8%
48201211700	26.2%	87.7%	37.4%	26.9%	10 minutes	50 minutes	329	14.2%
48201240502	26.2%	65.0%	37.8%	23.7%	8 minutes	8 minutes	158	12.0%
48201233600	25.8%	99.2%	33.5%	25.0%	7 minutes	56 minutes	213	14.7%
48201211100	25.3%	81.0%	45.1%	28.9%	11 minutes	55 minutes	448	16.2%

Table 4B: Selected Characteristics of Houston Census Tracts Having 25% of More of Household Units Without Access to a Motor Vehicle: Tracts with a Majority of Plurality of Hispanic Citizens of Voting Age

Tract	Households without Vehicle Access	Hispanic CVAP	Hispanic Citizen Poverty	Hispanic Households without Vehicle Access	One-Way Time to DPS by Car*	One-Way Time to DPS by Bus**	No-Match Registered Voters	No-Match Rate
48201220500	40.8%	50.7%	31.4%	21.8%	10 minutes	87 minutes	162	9.9%
48201432701	34.8%	27.7%	67.9%	39.3%	12 minutes	84 minutes	99	14.1%
48201433003	31.6%	22.7%	50.1%	31.3%	10 minutes	93 minutes	67	6.7%
48201421202	31.4%	66.3%	66.9%	35.1%	12 minutes	105 minutes	31	11.9%
48201212300	28.2%	87.4%	43.8%	23.7%	12 minutes	61 minutes	289	13.3%
48201420500	25.4%	21.4%	42.7%	14.6%	7 minutes	59 minutes	80	9.0%

Table 4C: Selected Characteristics of Houston Census Tracts Having 25% of More of Household Units Without Access to a Motor Vehicle: Tracts with a Majority of Plurality of Anglo Citizens of Voting Age

Tract	Households without Vehicle Access	Anglo CVAP	Anglo Citizen Poverty	Anglo Households without Vehicle Access	One-Way Time to DPS by Car*	One-Way Time to DPS by Bus**	No-Match Registered Voters	No-Match Rate
48201432802+	32.6%	37.2%	13.4%	45.7%	11 minutes	114 minutes	118	9.7%

*Times for car travel time were calculated with ArcGIS's Network Analysts extension using the census tract's centroid as the starting point.

**Times for bus travel were calculated with RidMetro.org using the census tract's centroid as the starting point. For consistency, all trips were assumed to begin at 8:00am on a weekday. Times for bus travel do not include a calculation for walking to the nearest bus stop to begin the trip, and from the last bus stop to the DPS Office.

+This tract includes Bellerive, a public senior housing facility that includes 200 one bedroom and 10 two bedroom units.

Table 6A⁺: Selected Characteristics of San Antonio Census Tracts Having 25% of More of Household Units Without Access to a Motor Vehicle: Tracts with a Majority of Plurality of African American Citizens of Voting Age

Tract	Households without Vehicle Access	African American CVAP	African American Citizen Poverty	African American Households without Vehicle Access	One-Way Time to DPS by Car*	One-Way Time to DPS by Bus**	No-Match Registered Voters	No-Match Rate
48029130600	32.0%	54.6%	48.1%	35.5%	10 minutes	34 minutes	250	15.9%
48029130500	31.4%	52.0%	36.9%	42.0%	9 minutes	39 minutes	257	14.5%

Table 6B⁺: Selected Characteristics of San Antonio Census Tracts Having 25% of More of Household Units Without Access to a Motor Vehicle: Tracts with a Majority of Plurality of Hispanic Citizens of Voting Age

Tract	Households without Vehicle Access	Hispanic CVAP	Hispanic Citizen Poverty	Hispanic Households without Vehicle Access	One-Way Time to DPS by Car*	One-Way Time to DPS by Bus**	No-Match Registered Voters	No-Match Rate
48029110500	46.9%	92.9%	55.8%	45.3%	9 minutes	26 minutes	85	13.6%
48029110100	42.4%	55.5%	29.1%	43.7%	9 minutes	29 minutes	193	12.2%
48029181005	40.9%	55.3%	43.8%	33.2%	3 minutes	19 minutes	95	8.5%
48029170401	36.7%	91.0%	52.4%	37.2%	8 minutes	29 minutes	203	12.5%

48029110800	36.3%	66.5%	37.9%	33.6%	10 minutes	46 minutes	77	9.2%
48029110700	35.0%	84.2%	42.0%	30.0%	9 minutes	36 minutes	76	12.5%
48029170800	32.3%	96.8%	33.4%	32.9%	5 minutes	10 minutes	98	14.1%
48029111000	31.6%	77.3%	39.0%	33.2%	11 minutes	29 minutes	110	9.6%
48029192200	30.2%	79.3%	14.3%	40.0%	6 minutes	86 minutes	129	9.5%
48029150800	30.0%	85.2%	71.9%	31.7%	5 minutes	68 minutes	103	12.0%
48029190100	28.8%	78.8%	22.8%	28.4%	8 minutes	38 minutes	236	13.1%
48029170300	28.5%	93.5%	45.4%	28.7%	5 minutes	26 minutes	410	16.2%
48029130402	28.4%	51.8%	60.3%	20.8%	9 minutes	37 minutes	201	12.8%
48029130700	27.6%	77.8%	37.8%	18.3%	11 minutes	38 minutes	97	14.8%
48029170200	27.4%	95.9%	54.8%	27.9%	8 minutes	29 minutes	436	15.0%
48029180501	27.3%	72.8%	43.4%	28.0%	5 minutes	40 minutes	191	8.6%
48029190504	27.1%	80.0%	22.8%	28.1%	7 minutes	38 minutes	144	10.2%
48029110300	27.0%	69.3%	33.8%	24.7%	7 minutes	35 minutes	117	9.8%
48029180400	25.6%	81.8%	33.5%	23.2%	3 minutes	28 minutes	134	7.5%

⁺More than 25% of all household units in tract 48029110600 had no access to a motor vehicle, but the proportion was inflated due to the presence of the Bexar County Adult Detention Facility. As a result, the tract was deleted from the analysis.

^{*}Times for car travel time were calculated with ArcGIS's Network Analysts extension using the census tract's centroid as the starting point.

^{**}Times for bus travel were calculated with VIA Metropolitan Transit using the census tract's centroid as the starting point. For consistency, all trips were assumed to begin at 8:00am on a weekday. Times for bus travel do not include a calculation for walking to the nearest bus stop to begin the trip, and from the last bus stop to the DPS Office.

Table 8A: Selected Characteristics of Dallas Census Tracts Having 25% of More of Household Units Without Access to a Motor Vehicle: Tracts with a Majority of Plurality of African American Citizens of Voting Age

Tract	Households without Vehicle Access	African American CVAP	African American Citizen Poverty	African American Households without Vehicle Access	One-Way Time to DPS by Car*	One-Way Time to DPS by Bus**	No-Match Registered Voters	No-Match Rate
48113003901	55.3%	100.0%	47.2%	55.3%	15 minutes	79 minutes	229	19.4%
48113003400	49.9%	73.7%	52.9%	65.5%	15 minutes	72 minutes	163	19.0%
48113020300	43.2%	89.0%	54.2%	44.3%	13 minutes	62 minutes	350	20.6%
48113002701	42.2%	92.9%	70.3%	47.2%	13 minutes	84 minutes	393	21.4%
48113008604	41.8%	88.4%	51.8%	47.0%	13 minutes	71 minutes	176	16.0%
48113003800	40.5%	96.8%	34.0%	40.2%	15 minutes	73 minutes	333	20.0%
48113011500	34.1%	93.4%	57.8%	51.5%	18 minutes	80 minutes	151	16.2%
48113008704	33.6%	90.8%	40.9%	34.8%	13 minutes	75 minutes	349	15.7%
48113009304	33.6%	83.0%	59.4%	44.3%	19 minutes	111 minutes	320	13.9%
48113011105	33.4%	91.0%	33.1%	36.4%	9 minutes	48 minutes	249	12.4%
48113020500	33.3%	61.9%	66.0%	44.7%	14 minutes	51 minutes	314	14.4%
48113002702	31.3%	97.1%	34.2%	31.8%	13 minutes	75 minutes	257	21.9%

48113012210	29.4%	57.3%	47.3%	38.6%	9 minutes	30 minutes	166	10.6%
48113008701	28.6%	95.2%	51.3%	31.0%	14 minutes	43 minutes	416	16.3%
48113011401	28.5%	96.3%	58.4%	29.0%	15 minutes	62 minutes	458	15.2%
48113004100	28.4%	91.0%	78.0%	35.5%	12 minutes	57 minutes	122	19.0%
48113016607	28.1%	87.9%	26.7%	28.7%	3 minutes	7 minutes	208	14.4%
48113001600	27.5%	41.3%	55.9%	61.2%	14 minutes	53 minutes	242	8.3%
48113012302	26.9%	46.3%	54.6%	38.5%	9 minutes	50 minutes	275	10.8%
48113004000	26.8%	90.8%	15.3%	27.0%	16 minutes	70 minutes	132	17.0%
48113007815	26.0%	28.0%	38.2%	32.5%	11 minutes	41 minutes	80	9.1%

Table 8B: Selected Characteristics of Dallas Census Tracts Having 25% of More of Household Units Without Access to a Motor Vehicle: Tracts with a Majority of Plurality of Hispanic Citizens of Voting Age

Tract	Households without Vehicle Access	Hispanic CVAP	Hispanic Citizen Poverty	Hispanic Households without Vehicle Access	One-Way Time to DPS by Car*	One-Way Time to DPS by Bus**	No-Match Registered Voters	No-Match Rate
48113012208	42.3%	24.3%	56.9%	26.5%	10 minutes	36 minutes	61	10.7%
48113001503	30.1%	32.3%	48.2%	23.9%	13 minutes	50 minutes	122	13.6%
48113000405	28.3%	20.7%	67.3%	9.3%	16 minutes	92 minutes	125	14.8%
48113004700	25.0%	63.7%	41.6%	21.2%	11 minutes	52 minutes	121	13.0%

Table 8C: Selected Characteristics of Dallas Census Tracts Having 25% of More of Household Units Without Access to a Motor Vehicle: Tracts with a Majority of Plurality of Anglo Citizens of Voting Age

Tract	Households without Vehicle Access	Anglo CVAP	Anglo Citizen Poverty	Anglo Households without Vehicle Access	One-Way Time to DPS by Car*	One-Way Time to DPS by Bus**	No-Match Registered Voters	No-Match Rate
48113019213	27.2%	58.6%	32.8%	34.7%	13 minutes	60 minutes	153	17.1%

*Times for car travel time were calculated with ArcGIS's Network Analysts extension using the census tract's centroid as the starting point.

**Times for bus travel were calculated with the DART website using the census tract's centroid as the starting point. For consistency, all trips were assumed to begin at 8:00am on a weekday. Times for bus travel do not include a calculation for walking to the nearest bus stop to begin the trip, and from the last bus stop to the DPS Office.

Table 11: Texas Population Growth by Race and Ethnicity, 2000-2010

	2000	2010	Absolute Change	Percent Change
Anglo [*]	10,933,313	11,397,345	464,032	+4.2%
Hispanic/Latino	6,669,666	9,460,921	2,791,255	+41.8%
African American [*]	2,364,255	2,886,825	522,570	+22.1%
Asian [*]	554,445	948,426	393,981	+71.1%
American Indian/ Alaska Native [*]	68,859	80,586	11,727	+17.0%
Native Hawaiian/ Pacific Islander	10,757	17,920	7,163	+66.6%
Another Race [*]	19,958	33,980	14,022	+70.3%
Two or More Races ^{**}	230,567	319,558	88,991	+38.6%
Total Population	20,851,820	25,145,561	4,293,741	+20.6%

Source: Calculated from Census of Population 2000 and 2010.

^{*}Does not include Hispanics.

^{**}Does not include Hispanics, but does include respondents that list African American as one of their races.

Table 12: Texas Population Breakdown by Race and Ethnicity, 2000 and 2010

	% Total 2000	% Total 2010	Percent Point Change
Anglo [*]	52.4%	45.3%	-7.1%
Hispanic/Latino	32.0%	37.6%	+5.6%
African American [*]	11.3%	11.5%	+0.2%
Asian [*]	2.7%	3.8%	+1.1%
American Indian/ Alaska Native [*]	0.3%	0.3%	—
Native Hawaiian/ Pacific Islander	0.05%	0.07%	+0.02%
Another Race [*]	0.1%	0.1%	—
Two or More Races ^{**}	1.1%	1.3%	+0.2%

Source: Calculated from Census of Population 2000 and 2010.

^{*} Does not include Hispanics.

^{**} Does not include Hispanics, but does include respondents that list African American as one of their races.

Table 13: U.S. Citizen Voting Age Population by Demographic Group

	State of Texas	Percent of Total
Citizen VAP	15,276,966	100.0%
Anglo Citizen VAP	8,800,442	57.6%
Hispanic Citizen VAP	3,889,571	25.5%
African American Citizen VAP	1,938,918	12.7%
Asian Citizen VAP	419,716	2.8%
American Indian/ Alaska Native Citizen VAP	51,965	0.34%
Native Hawaiian/ Pacific Islander Citizen VAP	10,533	0.07%
Other Races Citizen VAP	21,317	0.14%
Two or More Races Citizen VAP	144,504	0.95%

Source: American Community Survey Five Year Estimates, Selected Population Tables, 2006-10, Table B05003.

Appendix 2